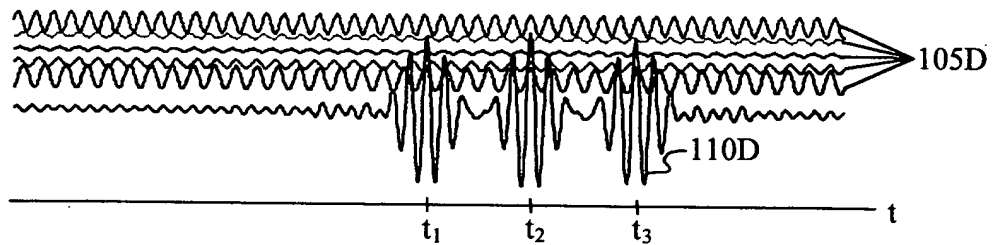


**FIG. 1A**



**FIG. 1B**

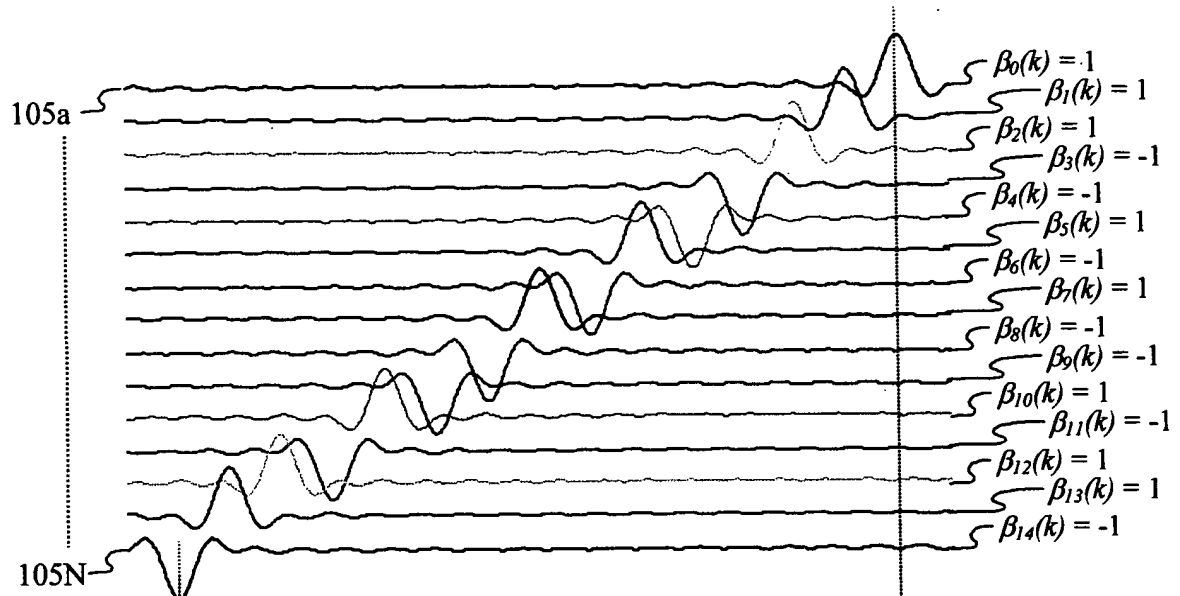


FIG. 2A

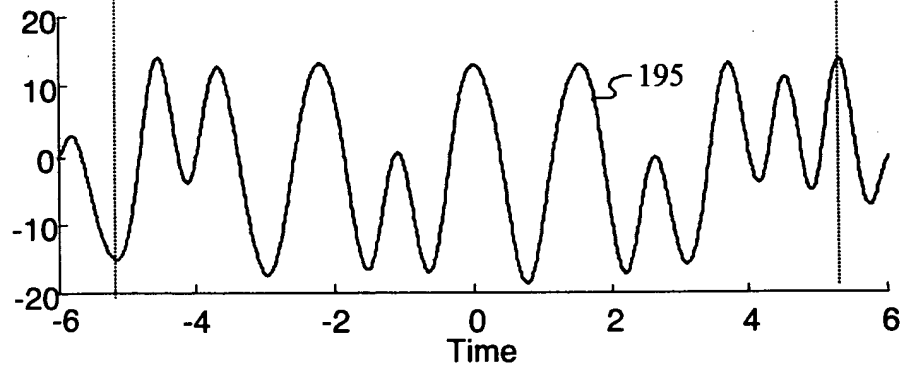
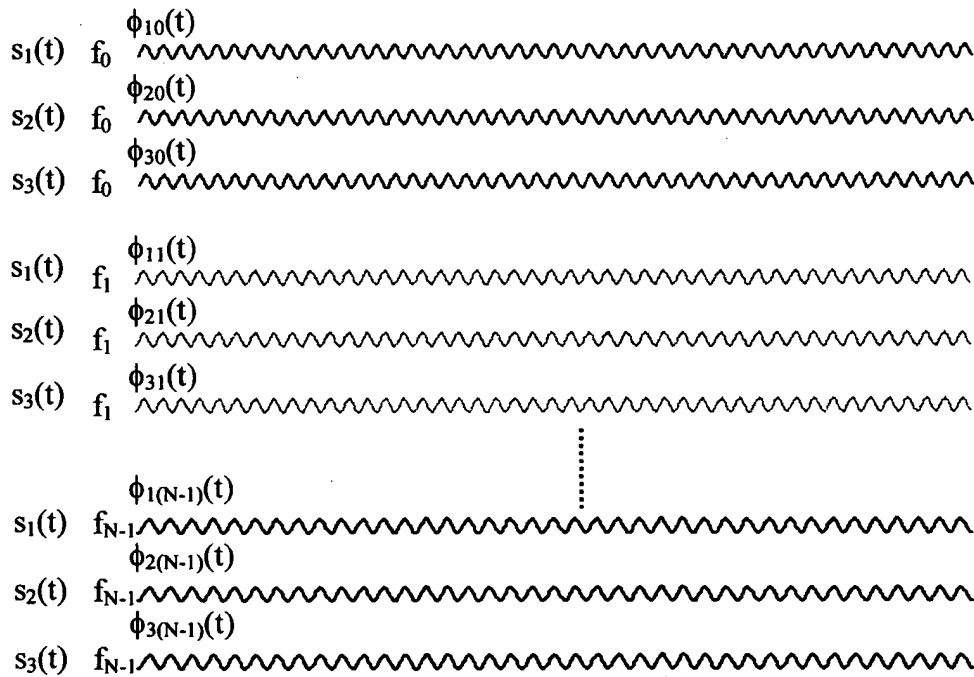
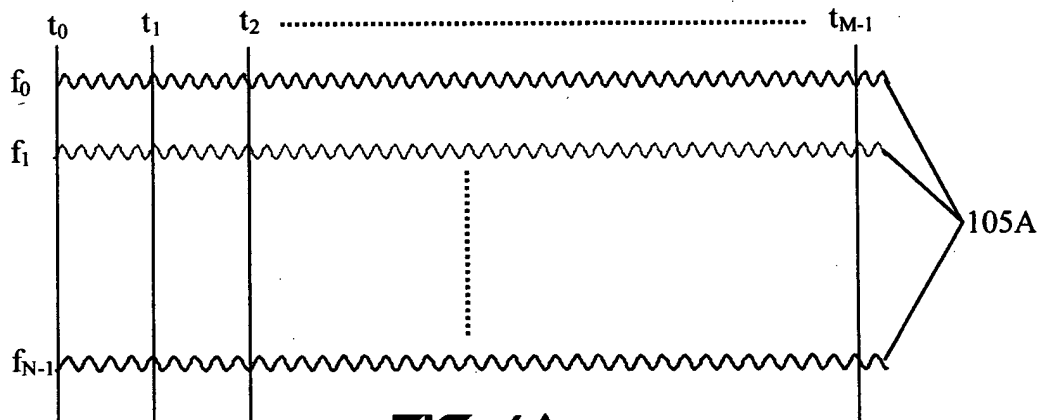
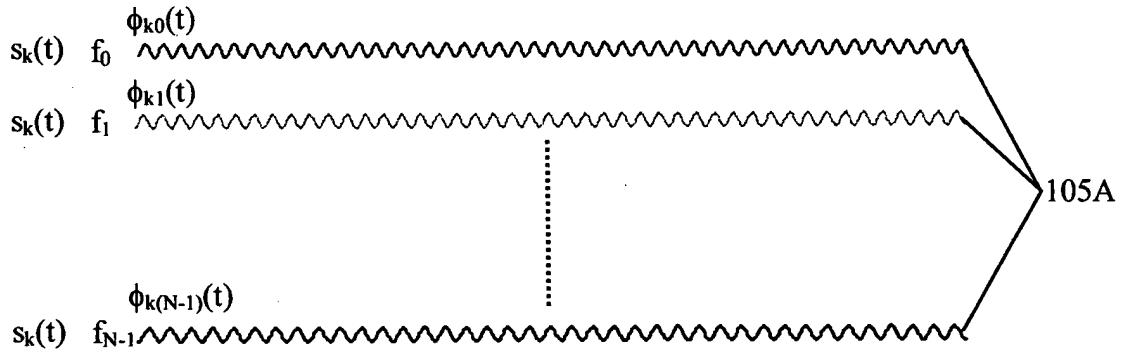
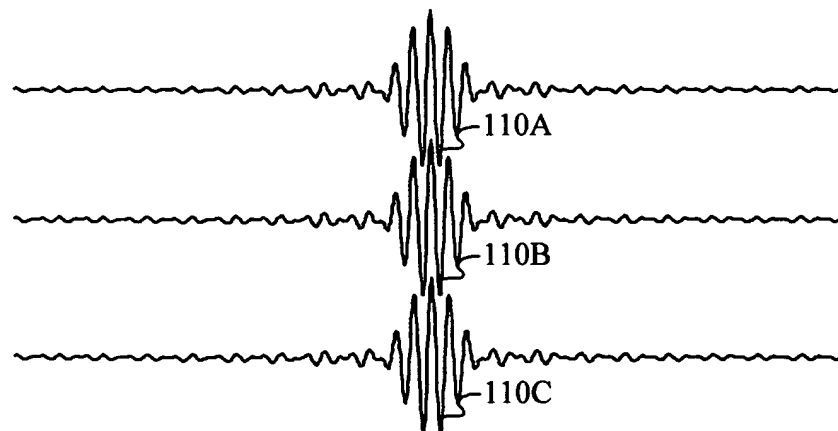
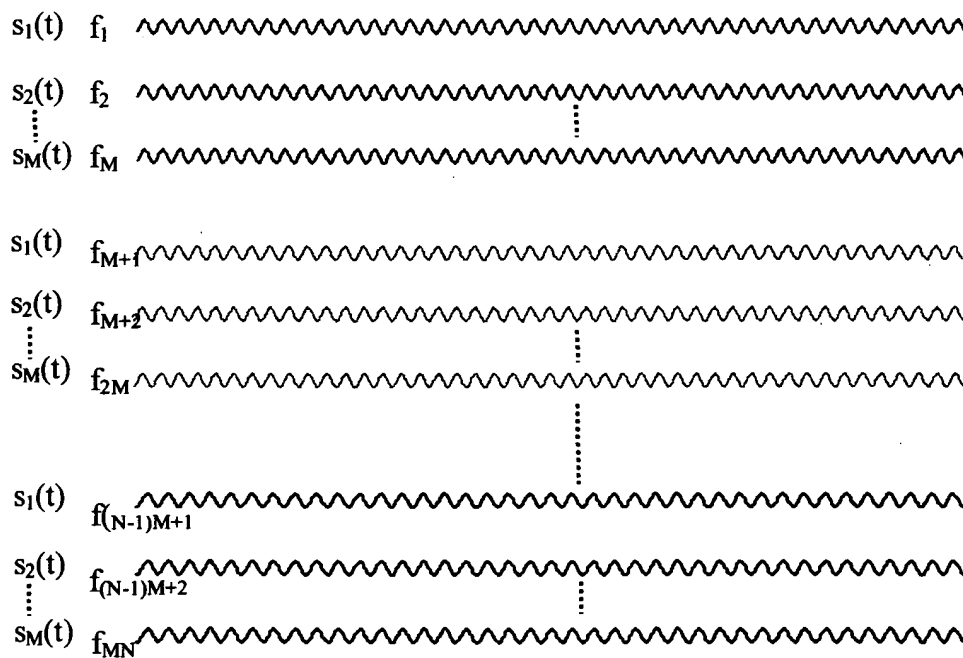
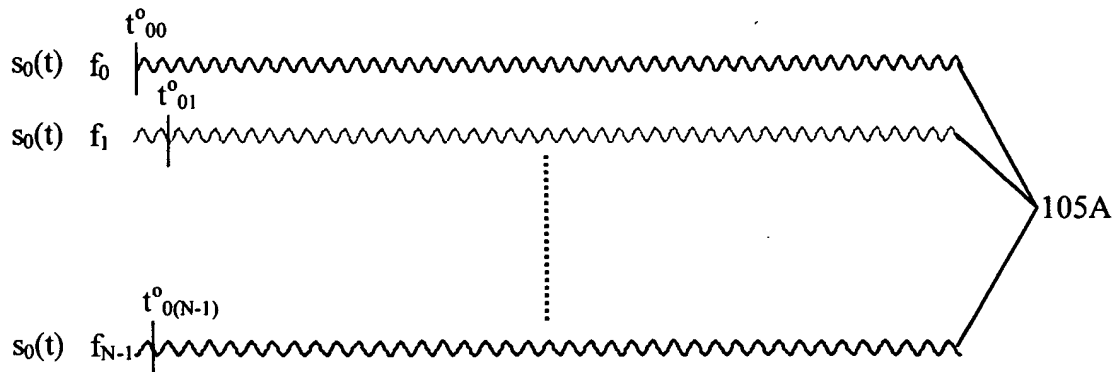
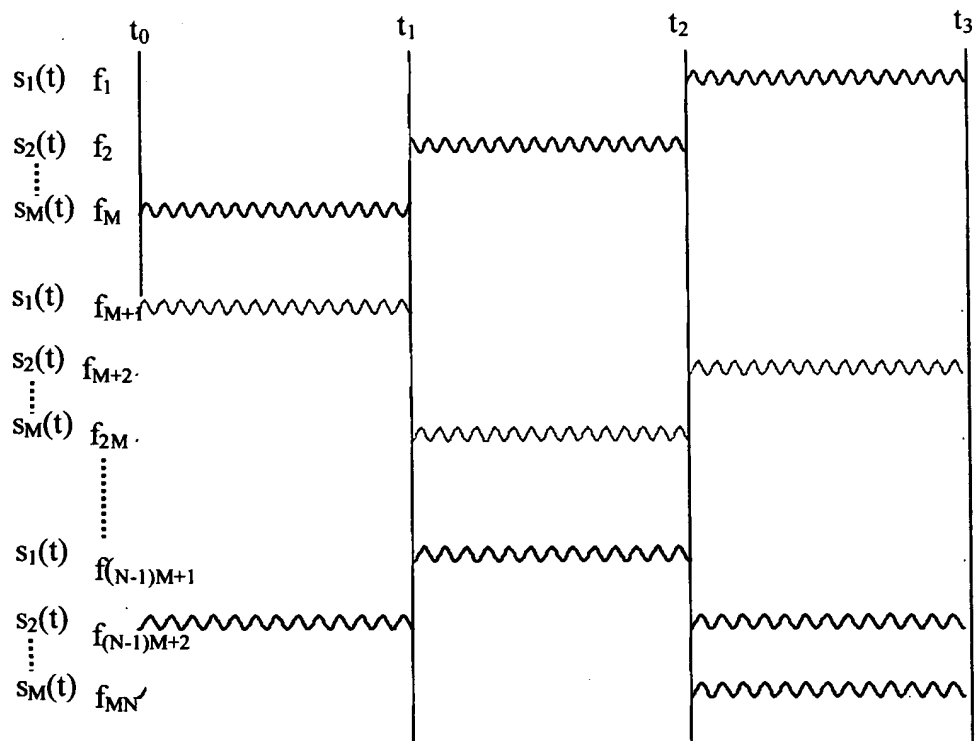


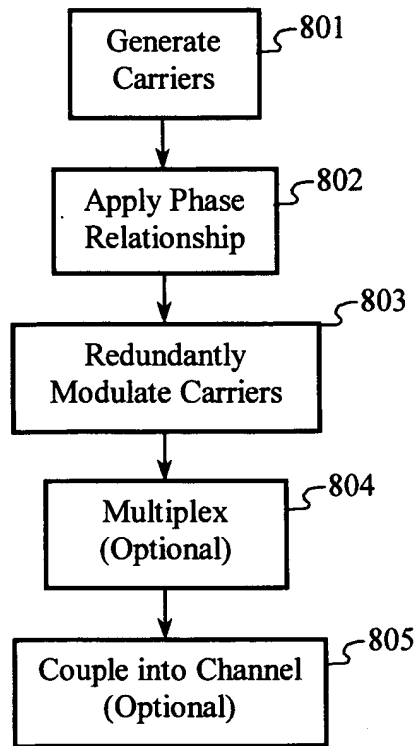
FIG. 2B



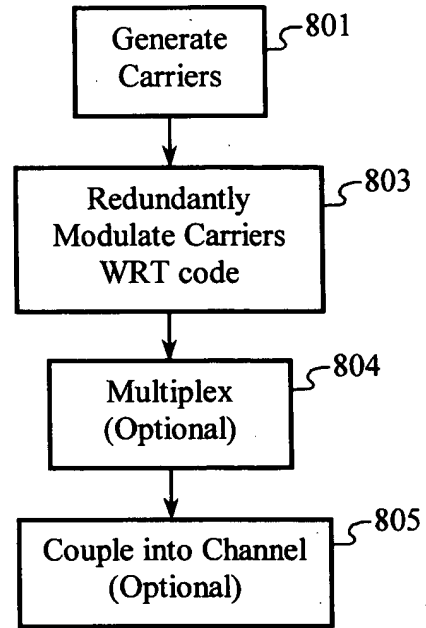




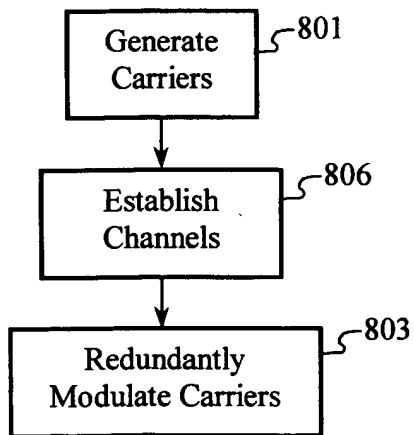
**FIG. 7**



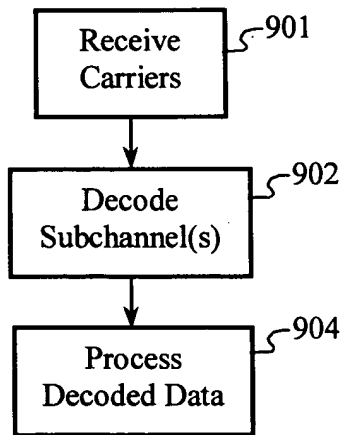
**FIG. 8A**



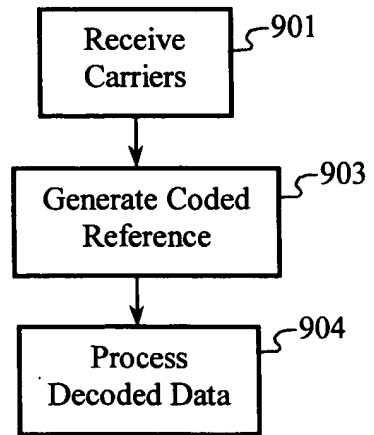
**FIG. 8B**



**FIG. 8C**



**FIG. 9A**



**FIG. 9B**

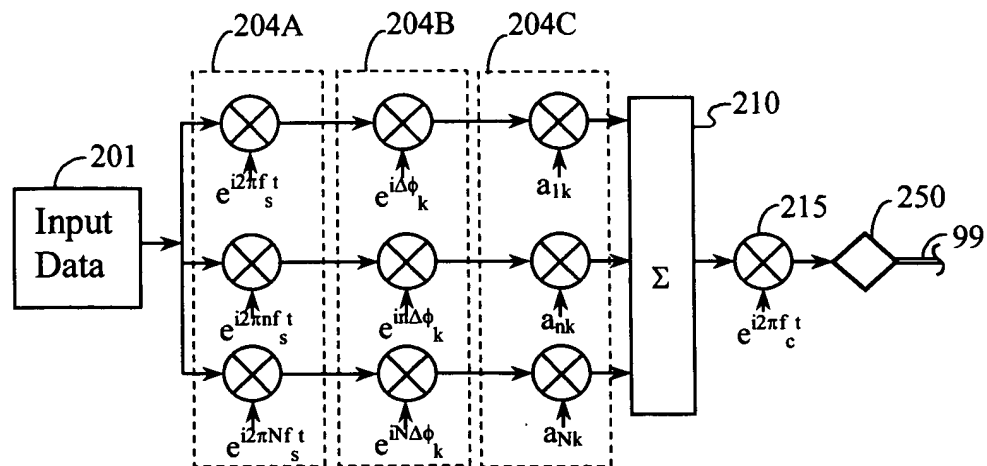


FIG. 10

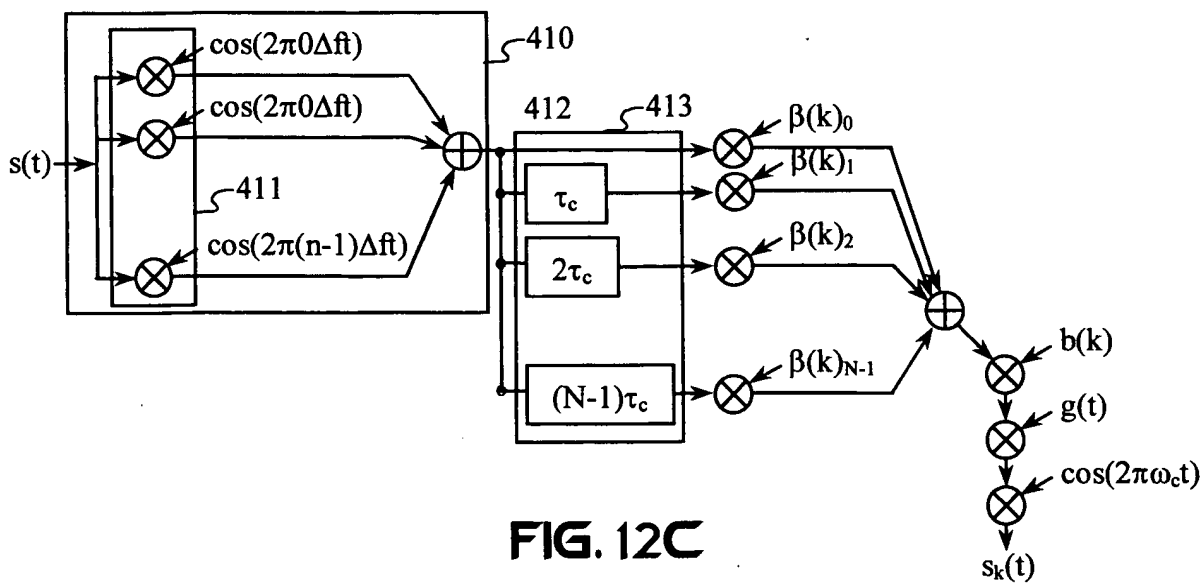


FIG. 12C

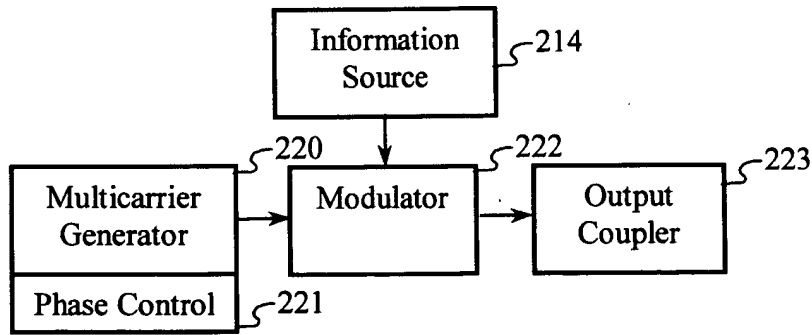


FIG. 11

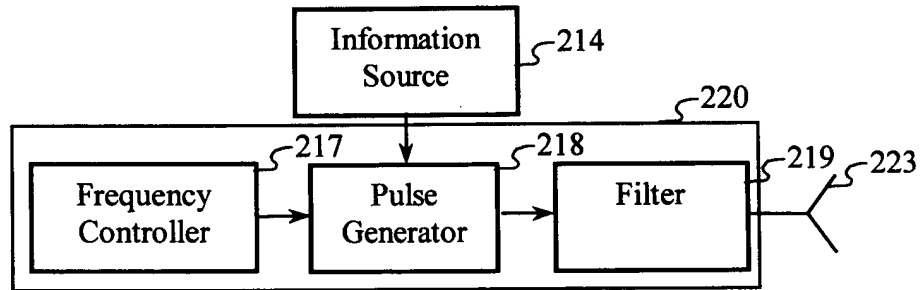


FIG. 12A

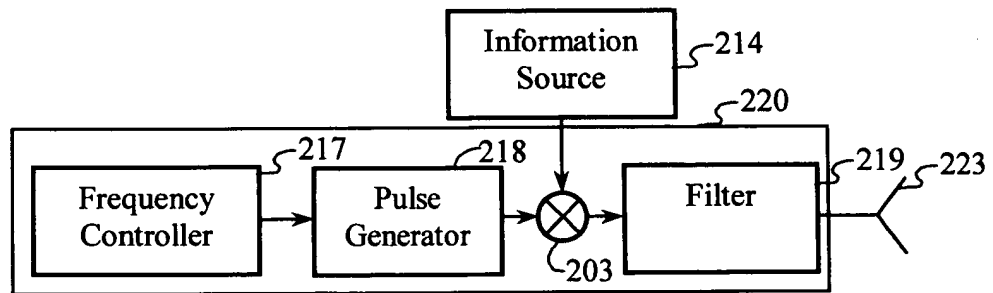


FIG. 12B



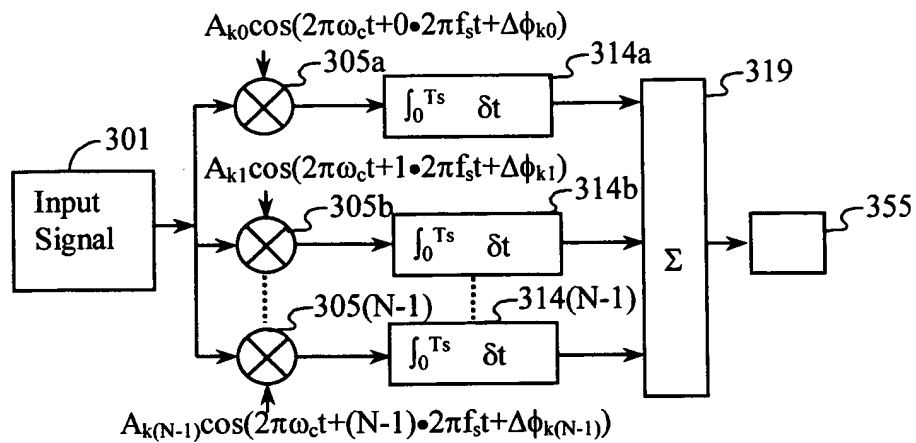


FIG. 13A

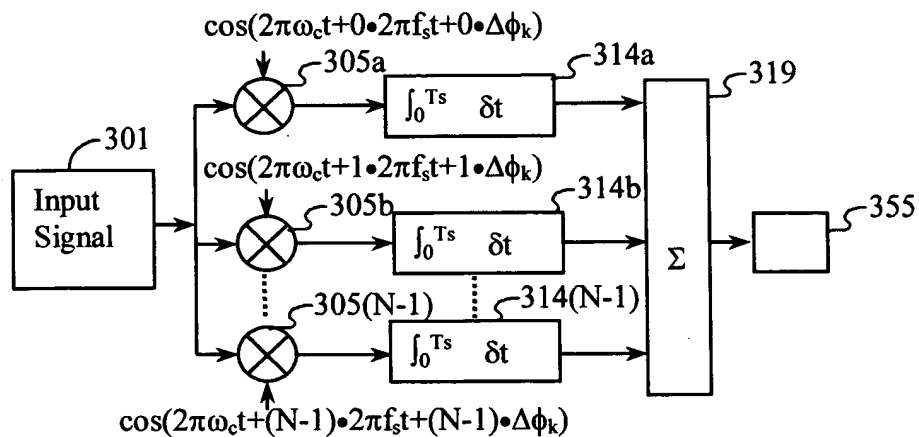


FIG. 13B

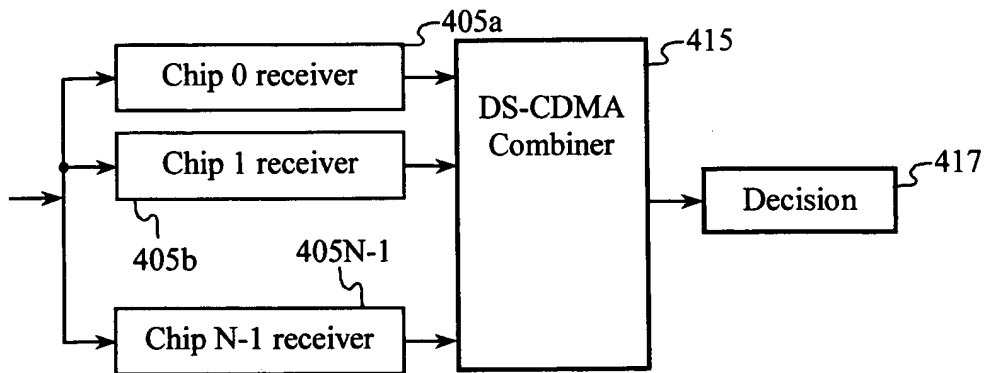


FIG. 14A

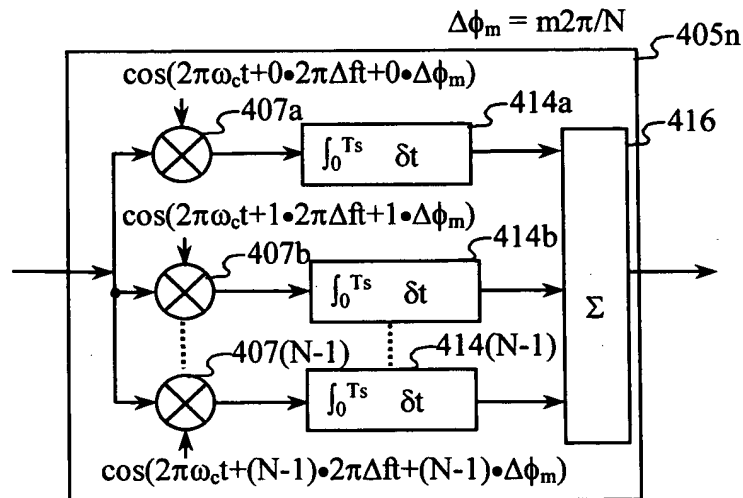
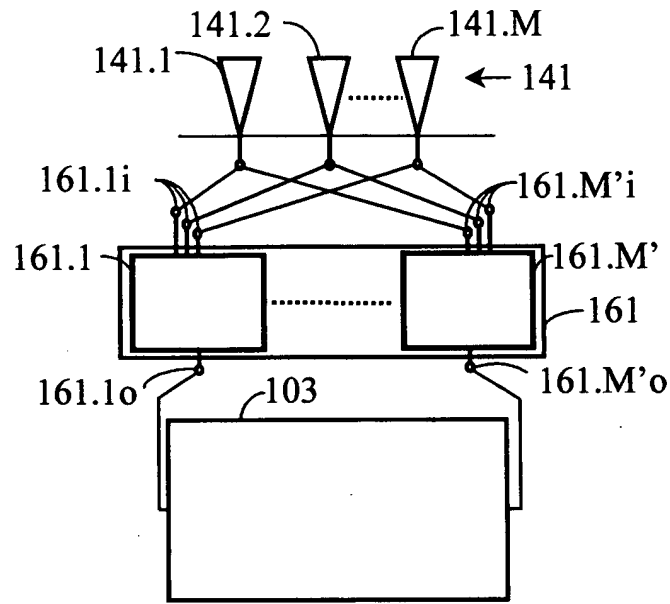
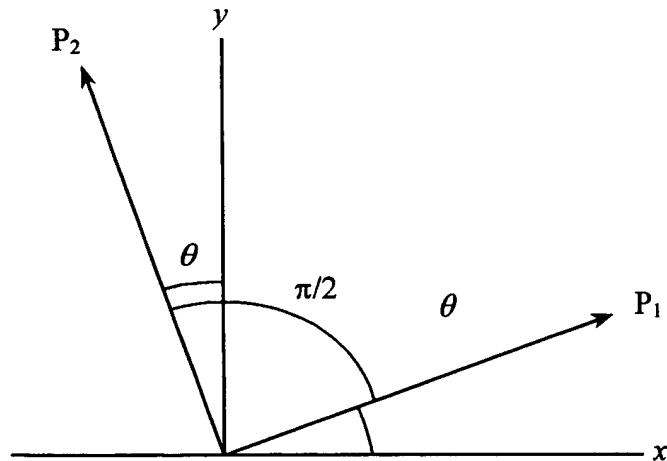


FIG. 14B



**FIG. 15**



**FIG. 16**

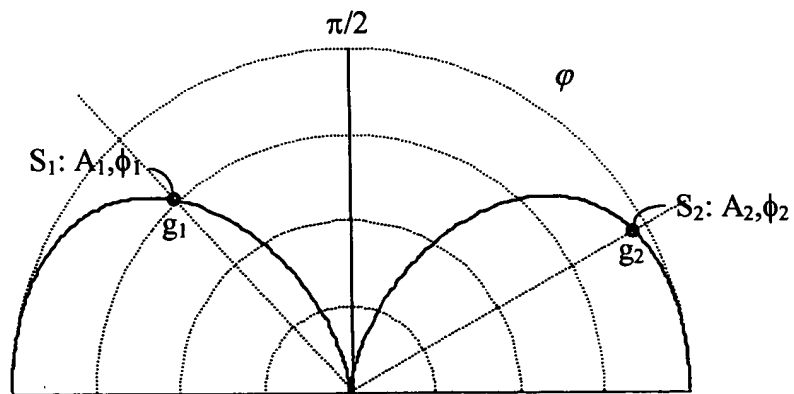


FIG. 17

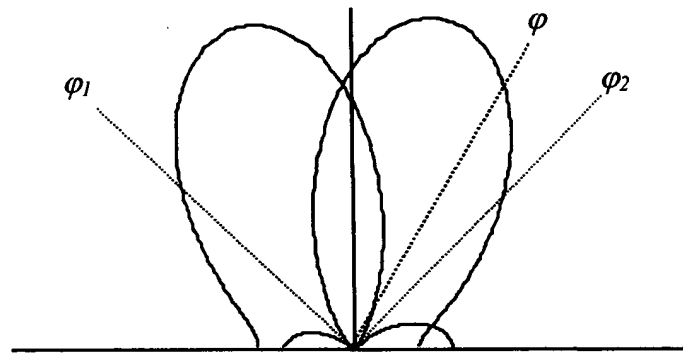
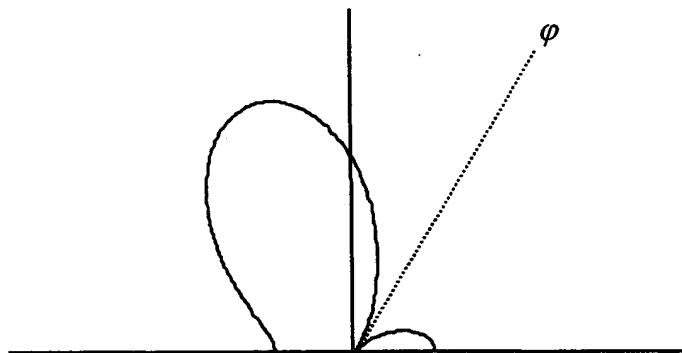
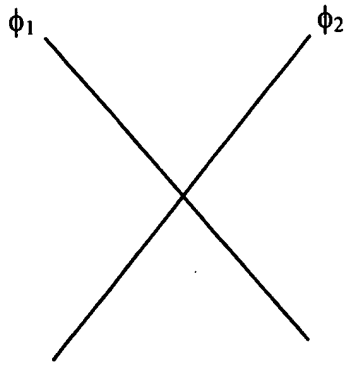


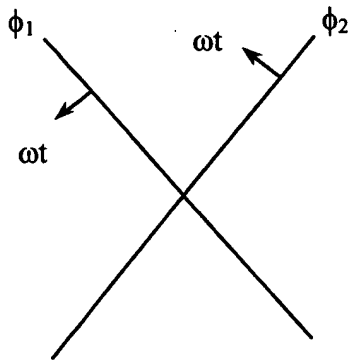
FIG. 18A



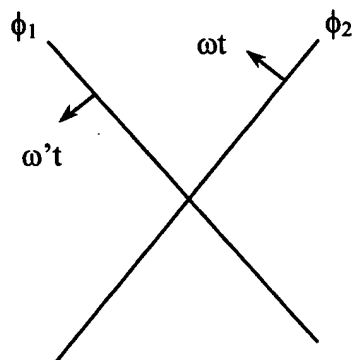
**FIG. 18B**



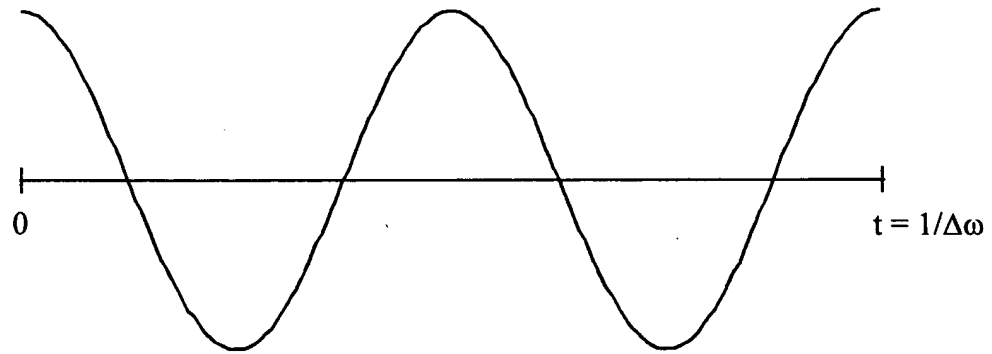
**FIG. 19A**



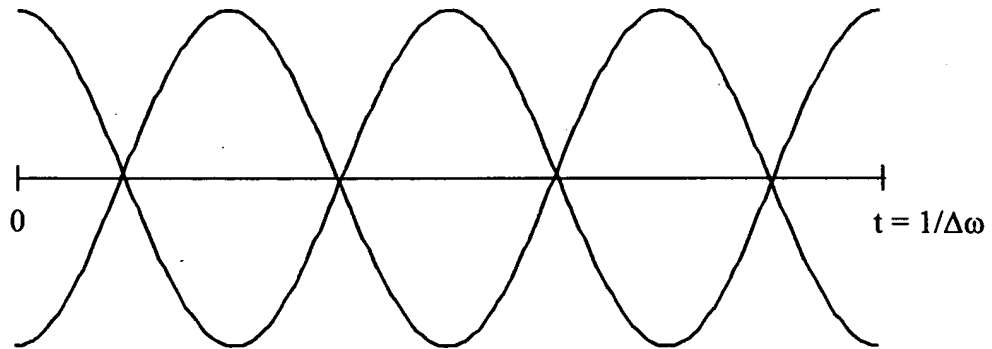
**FIG. 19B**



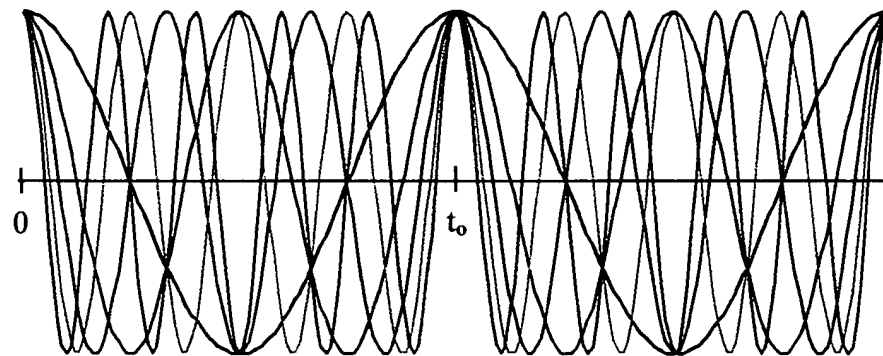
**FIG. 19C**



**FIG. 20A**



**FIG. 20B**



**FIG. 20C**

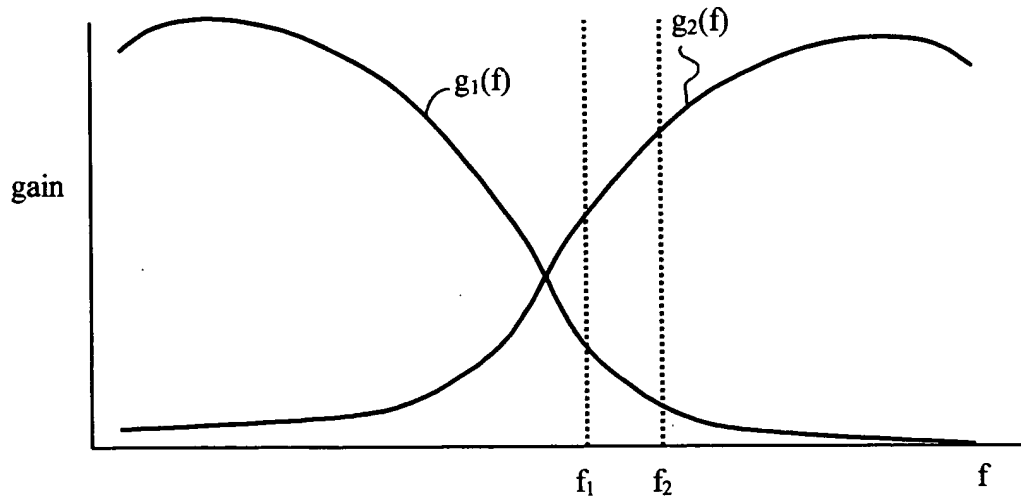


FIG. 21A

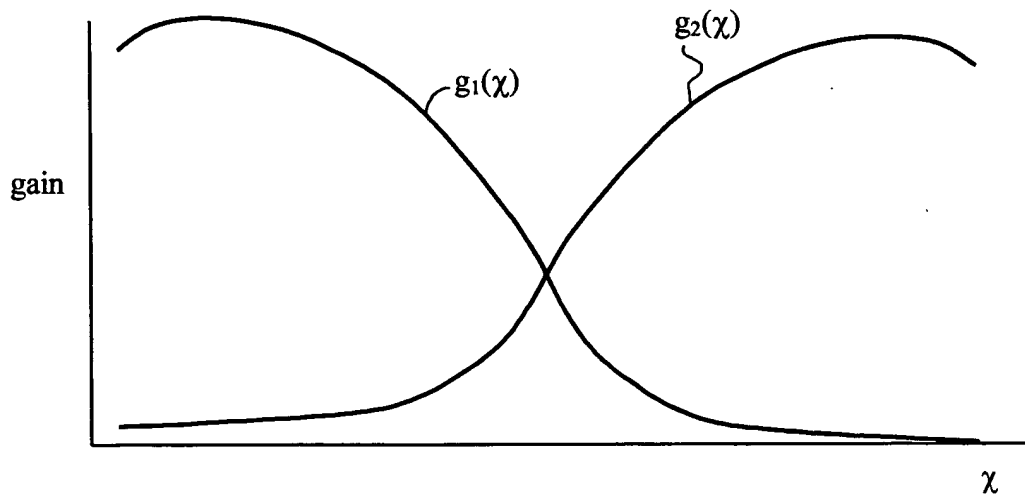
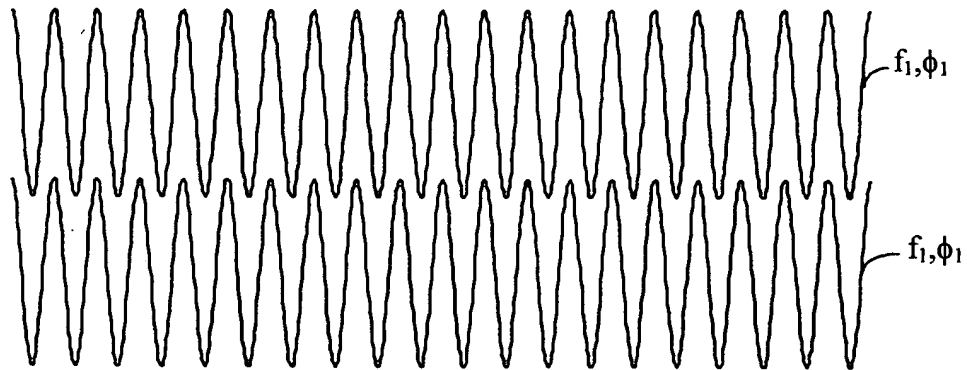
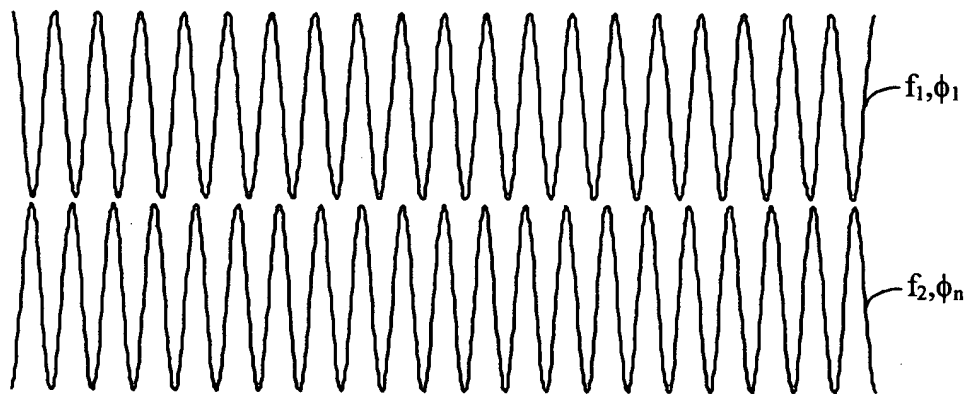


FIG. 21B



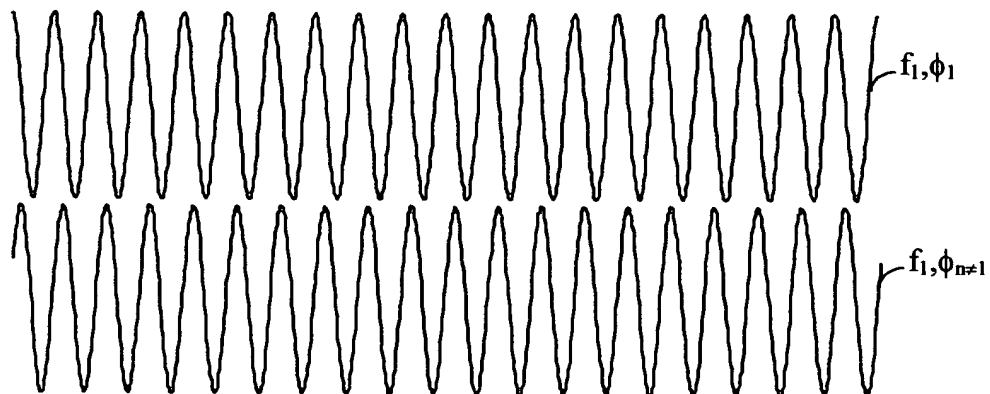
Normalized Correlation = 1

**FIG. 22A**



Normalized Correlation = 0

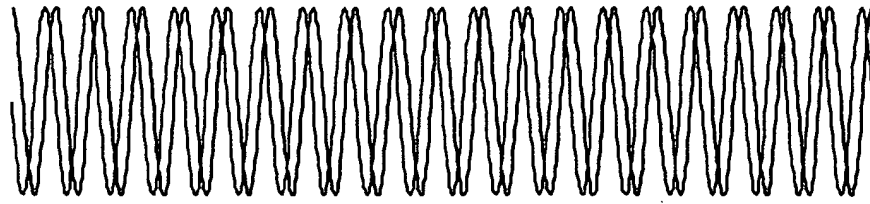
**FIG. 22B**



$1 \geq \text{Normalized Correlation} \geq -1$

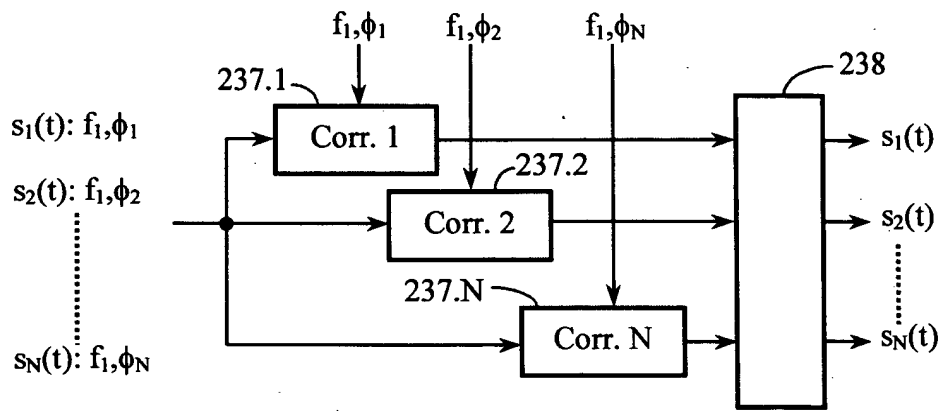
**FIG. 22C**



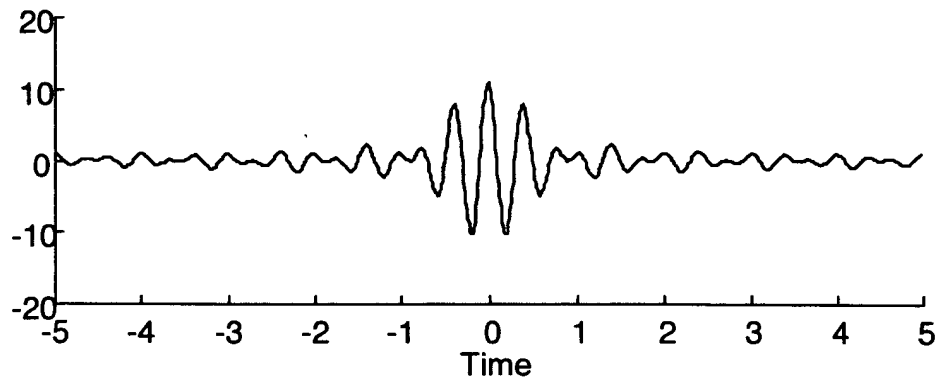


$\pi/2$  phase difference: In-phase and Quadrature phase

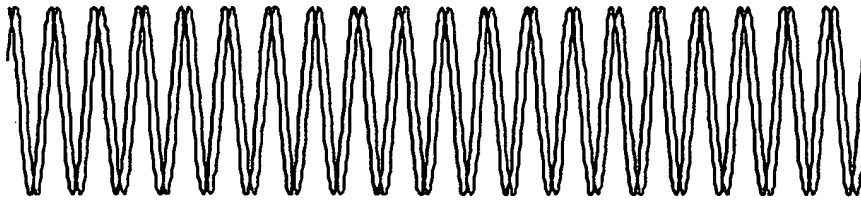
**FIG. 22D**



**FIG. 23**

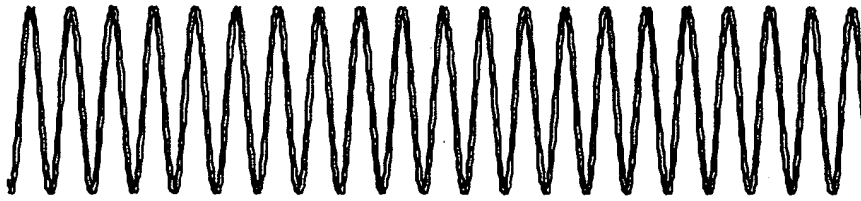


**FIG. 24**



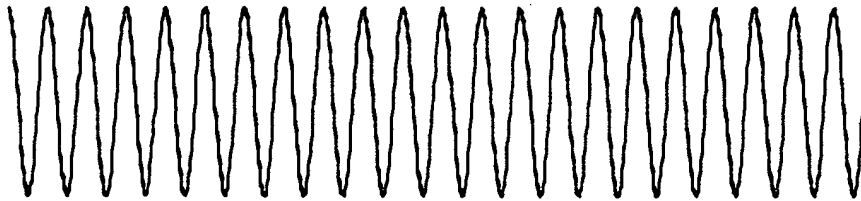
$$c = 0.4154$$

**FIG. 25A**



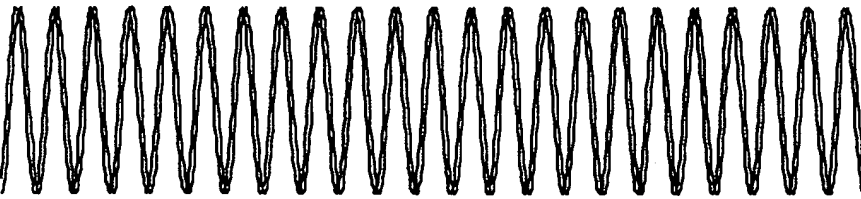
$$c = 0.8413$$

**FIG. 25B**



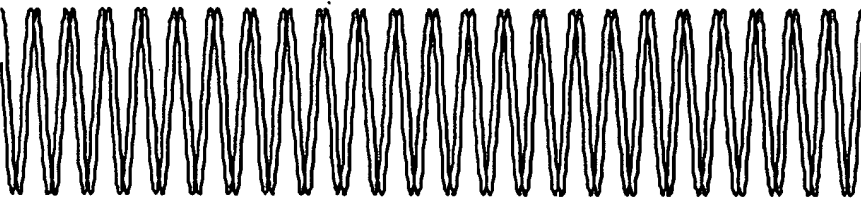
$$c = 1.0000$$

**FIG. 25C**



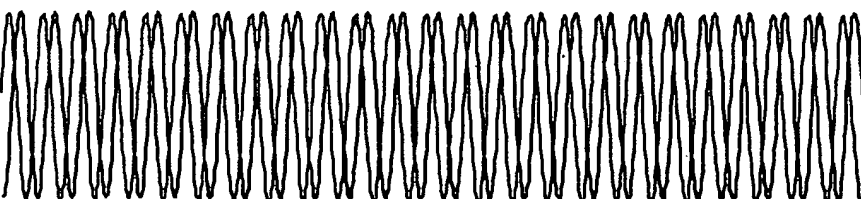
$$c = 0.8413$$

**FIG. 25D**



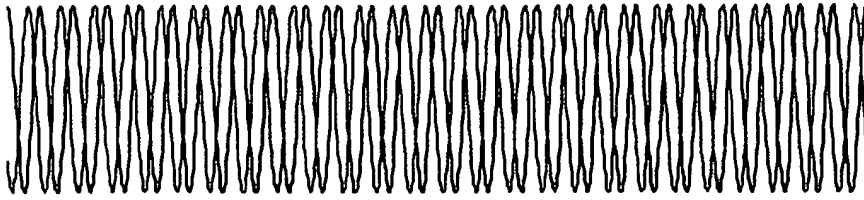
$$c = 0.4154$$

**FIG. 25E**



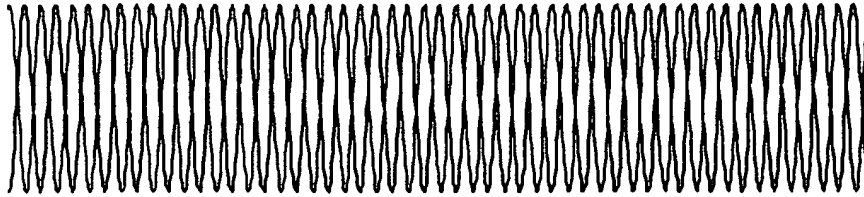
$$c = -0.1423$$

**FIG. 25F**



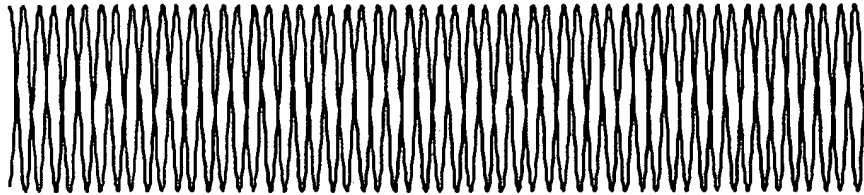
$c = -0.6549$

**FIG. 25G**



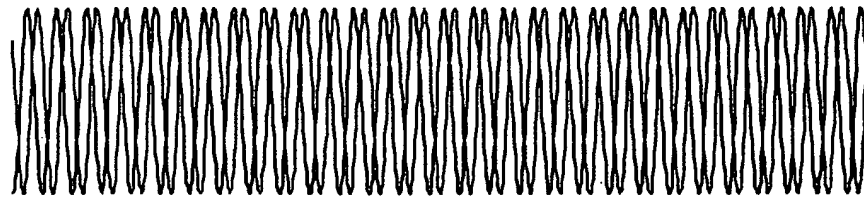
$c = -0.9595$

**FIG. 25H**



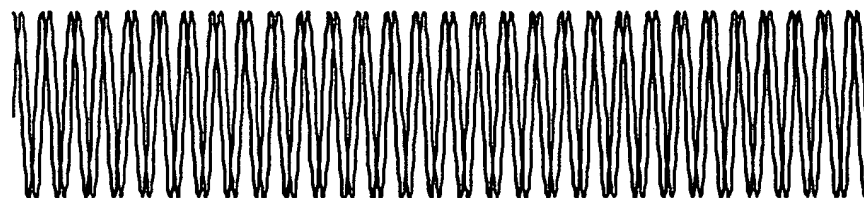
$c = -0.9595$

**FIG. 25I**



$c = -0.6549$

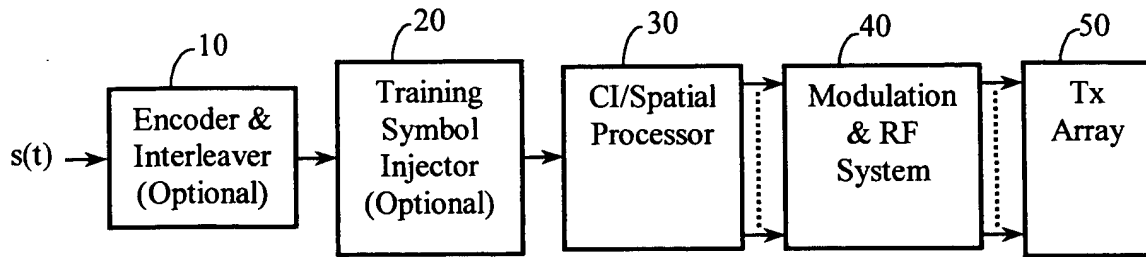
**FIG. 25J**



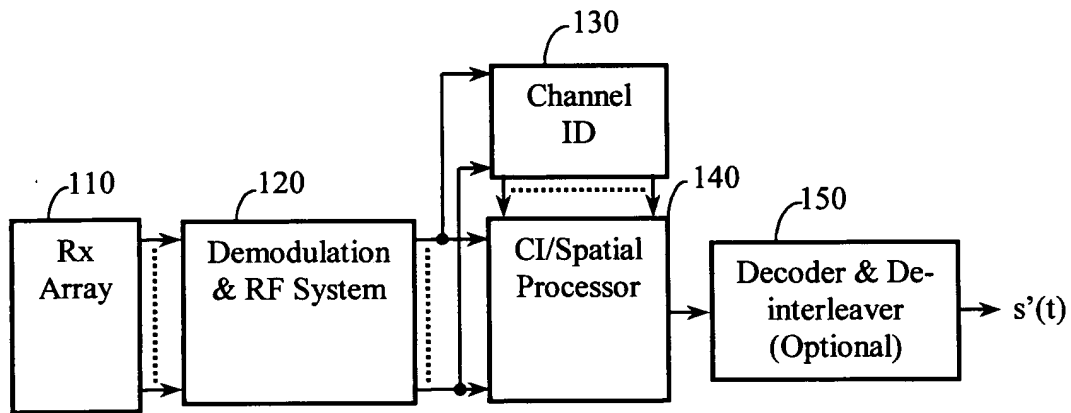
$c = -0.1423$

**FIG. 25K**

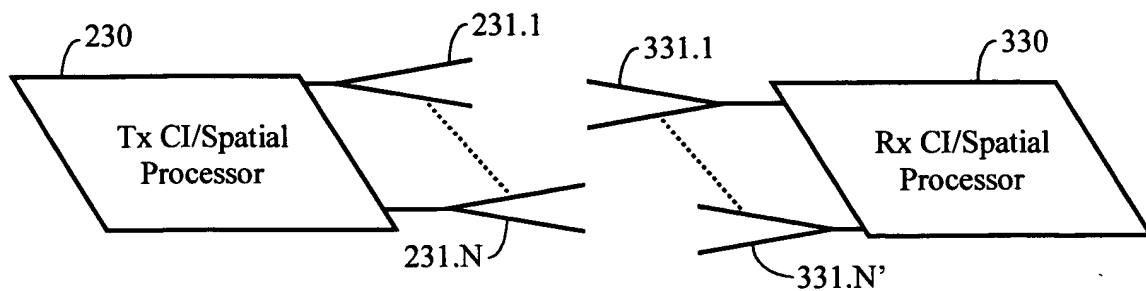
FIG. 25G



**FIG. 26**



**FIG. 27**



**FIG. 28A**

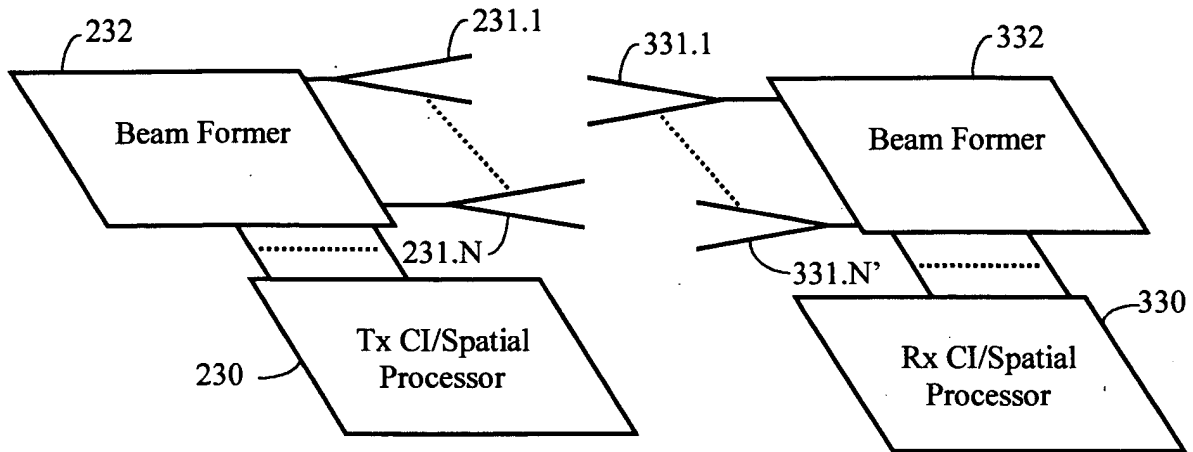


FIG. 28B

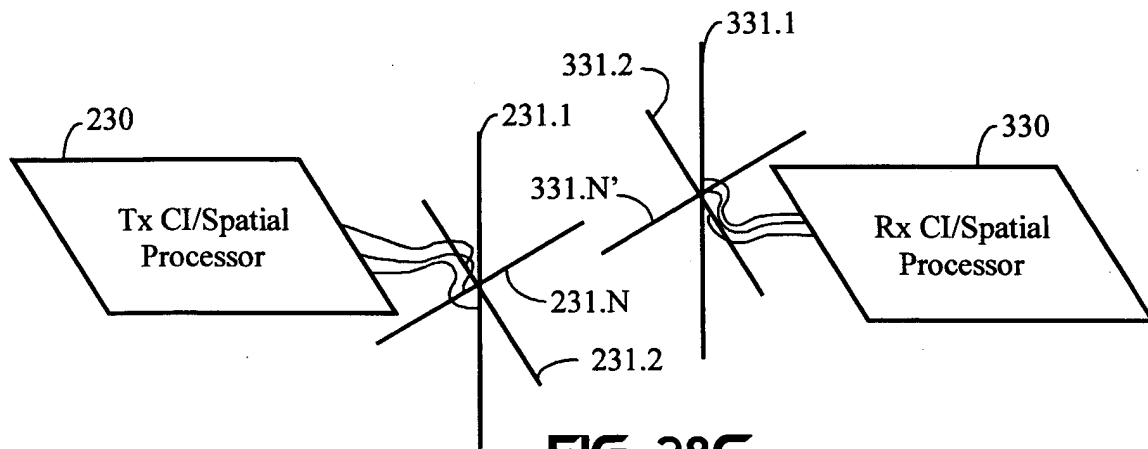


FIG. 28C

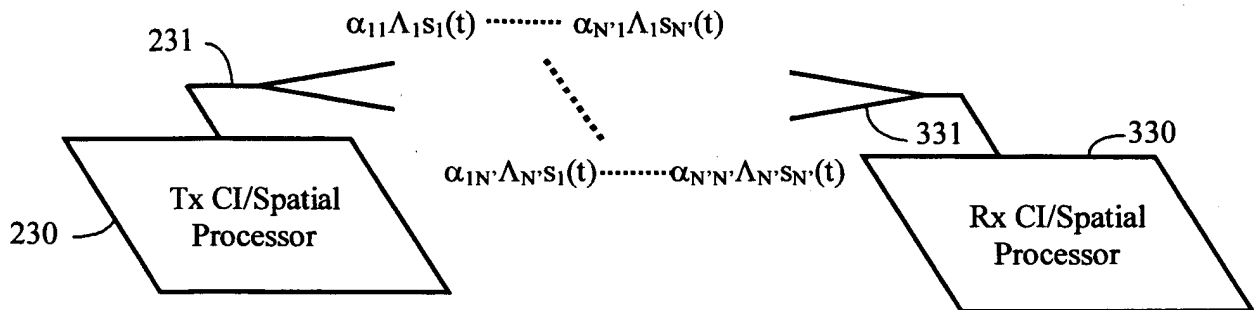
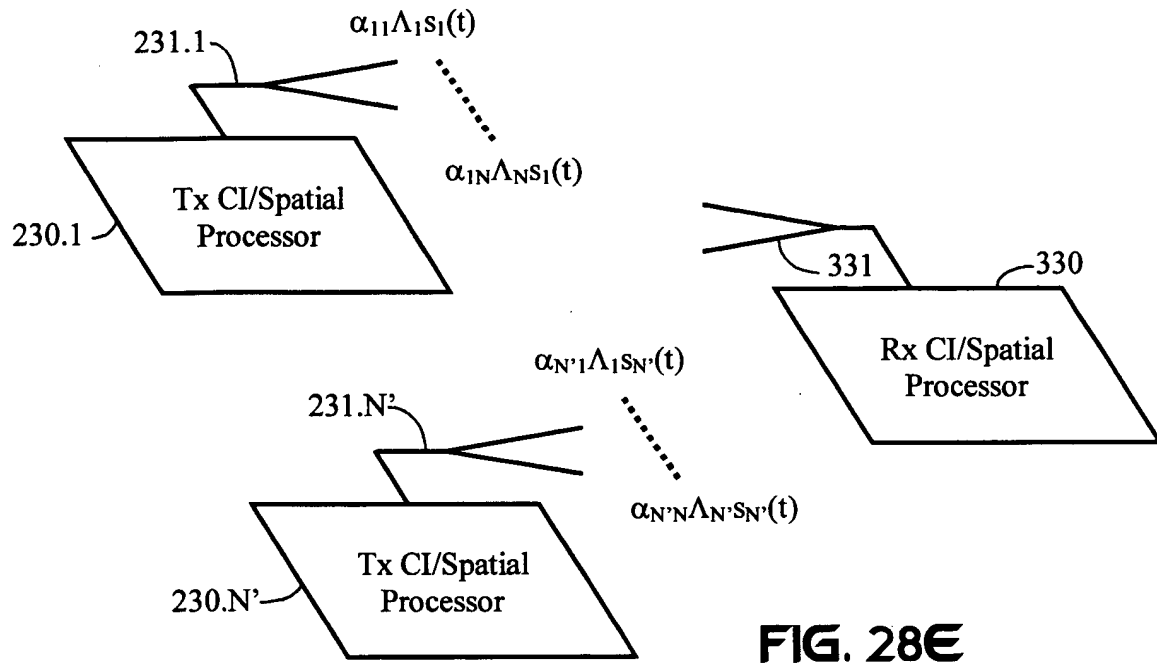
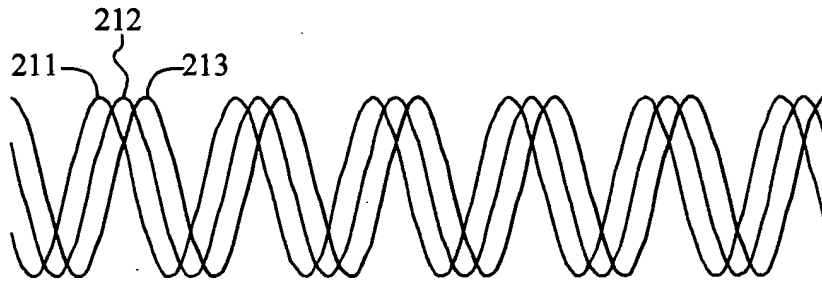


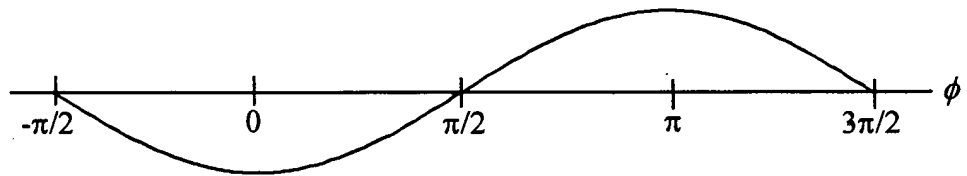
FIG. 28D



**FIG. 28E**



**FIG. 29A**



**FIG. 29B**

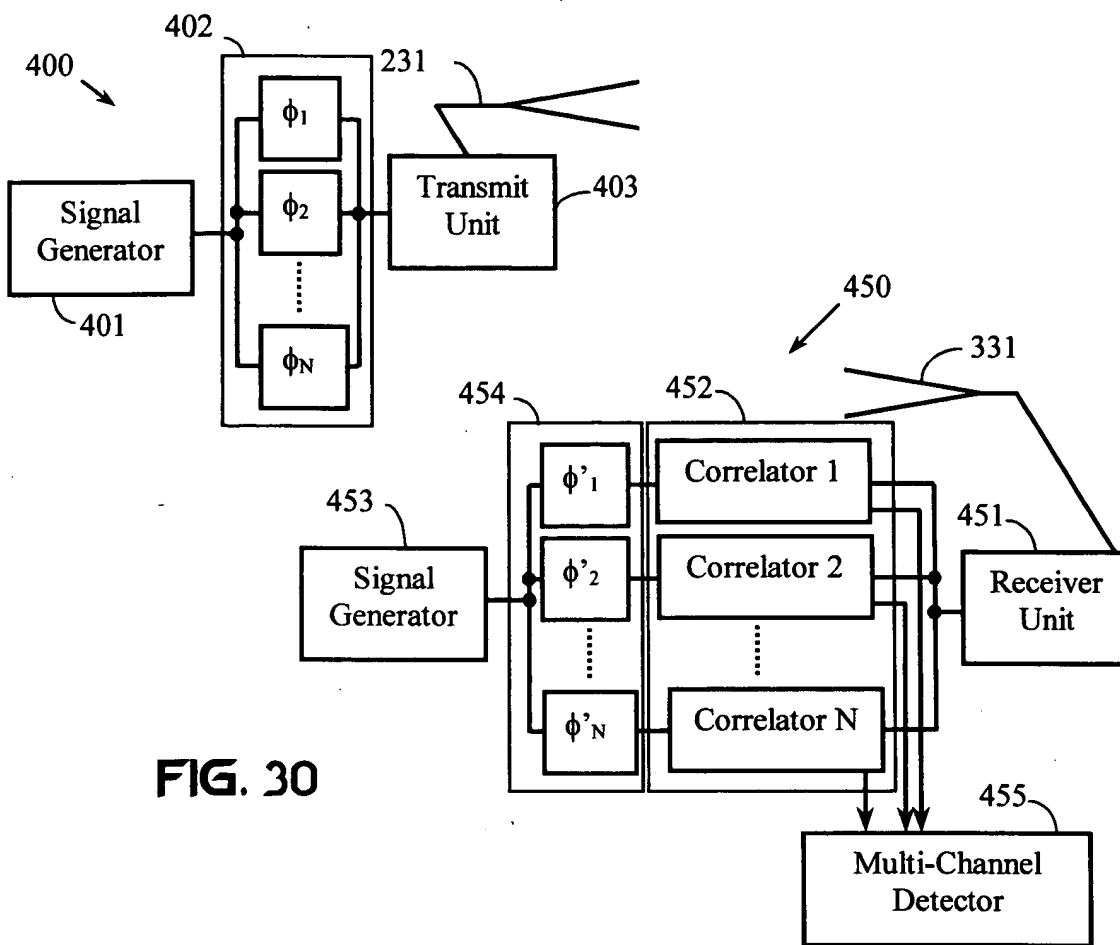


FIG. 30

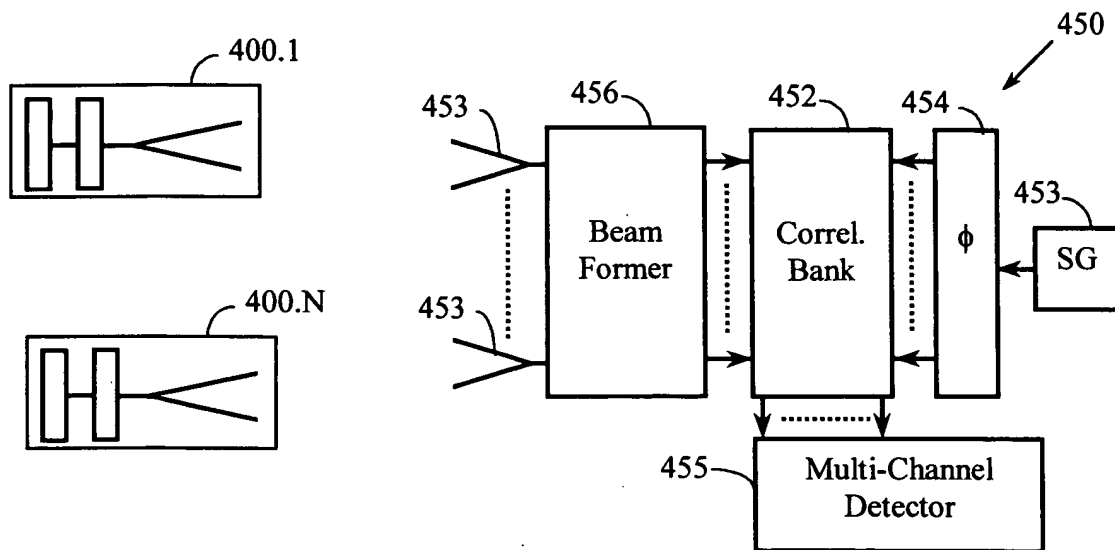
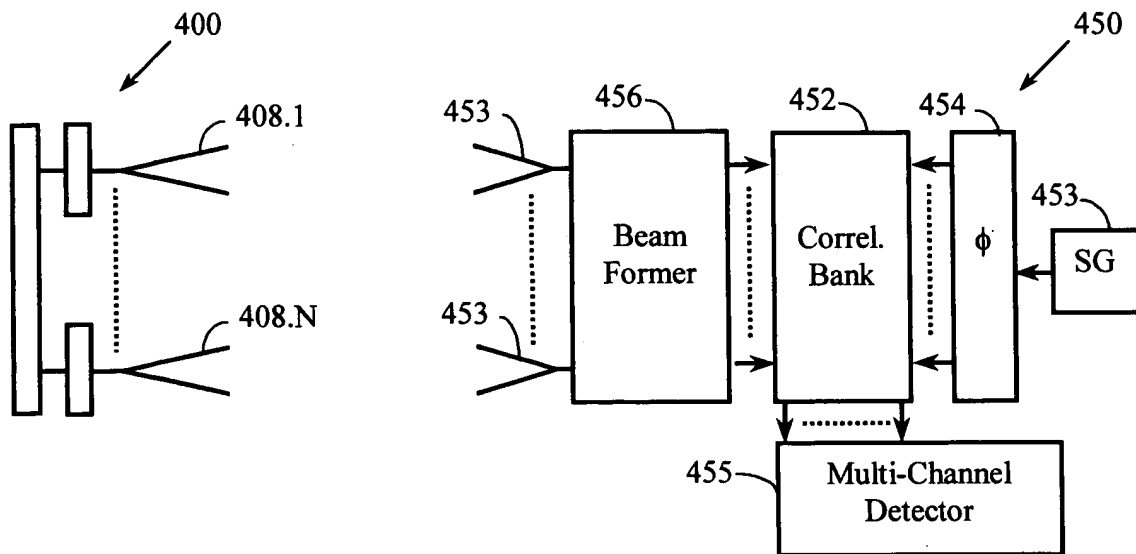
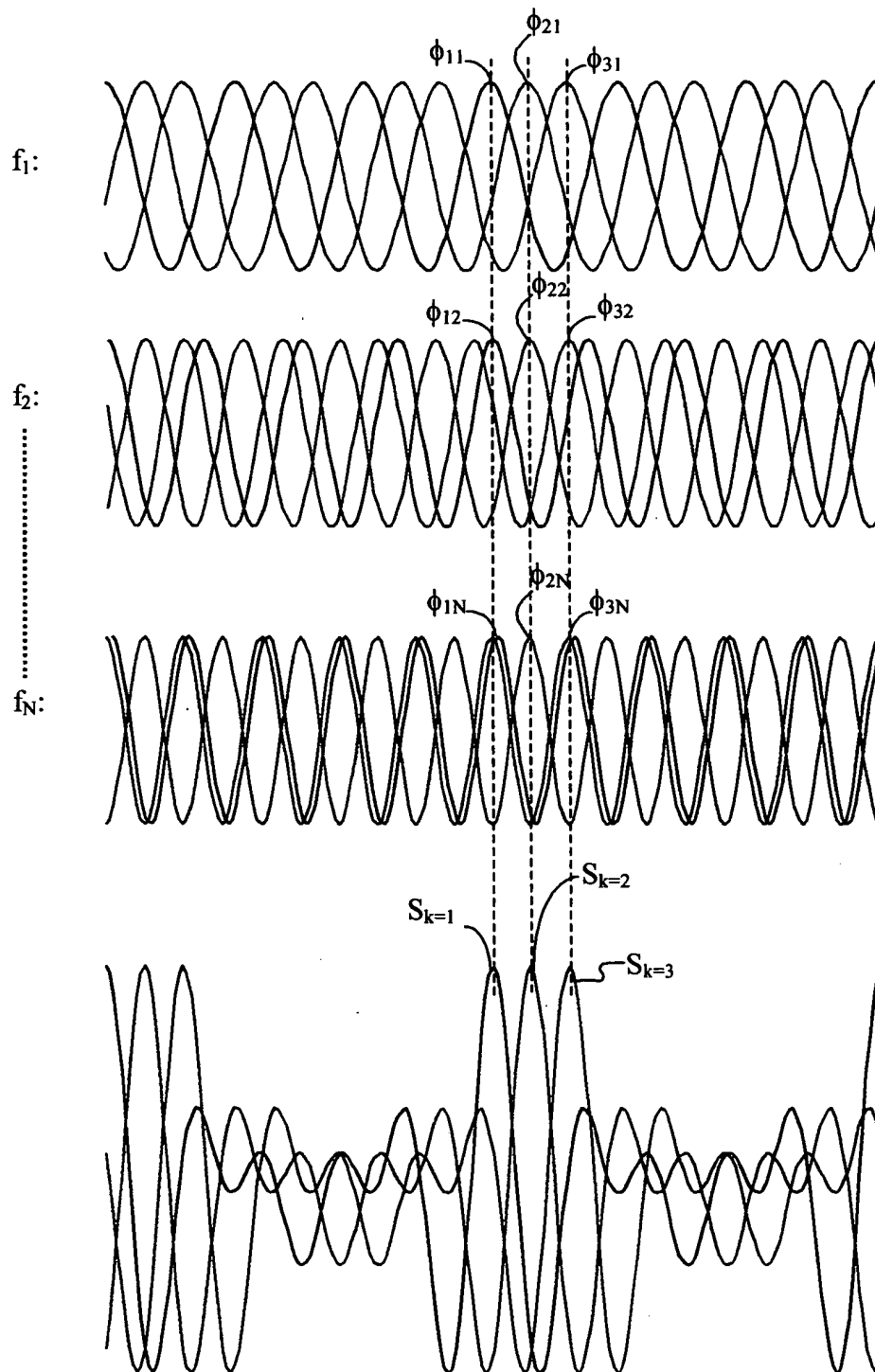


FIG. 31A



**FIG. 31B**





**FIG. 32**

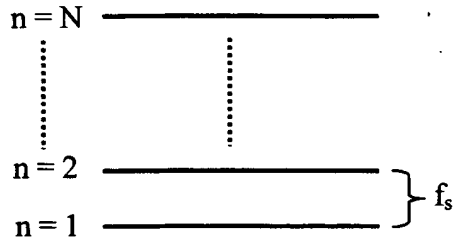


FIG. 33A

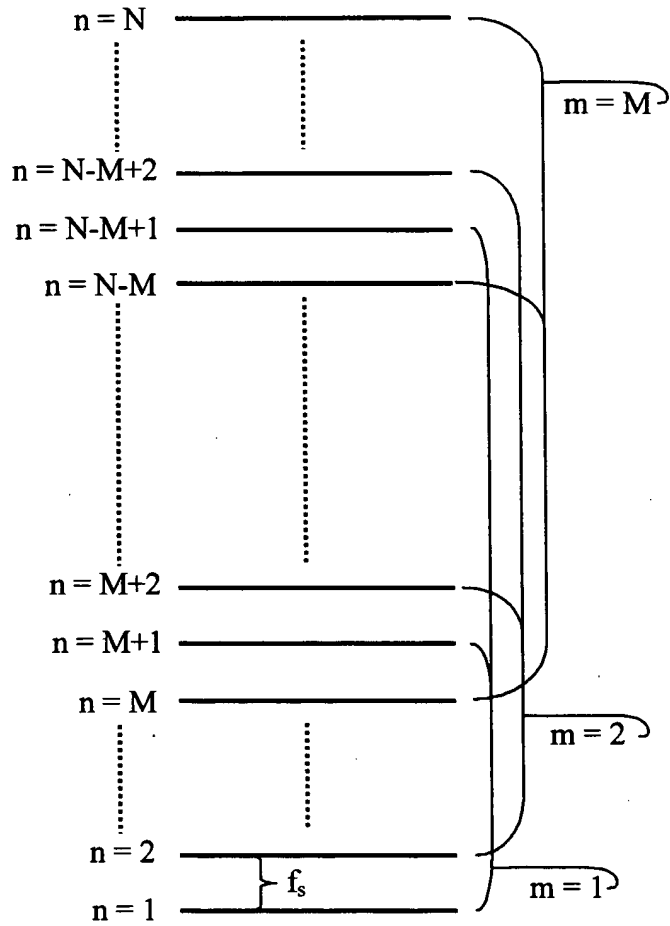


FIG. 33B

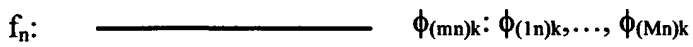


FIG. 34A

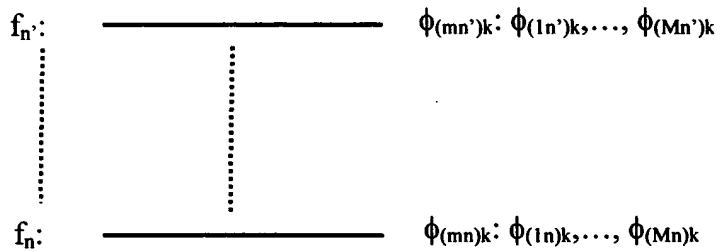
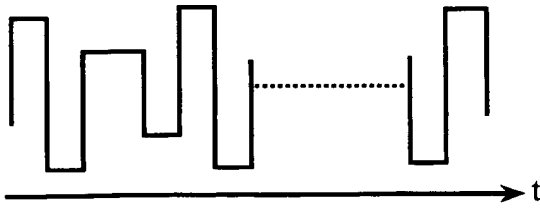


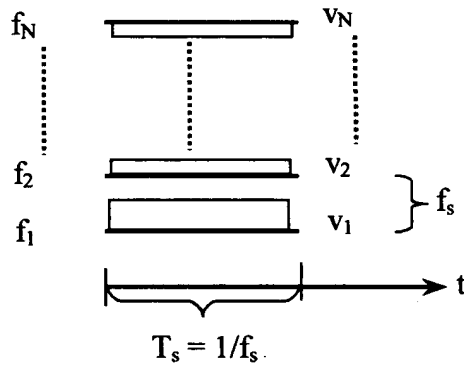
FIG. 34B



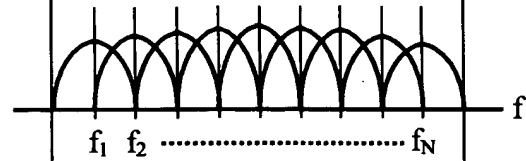
**FIG. 35A**



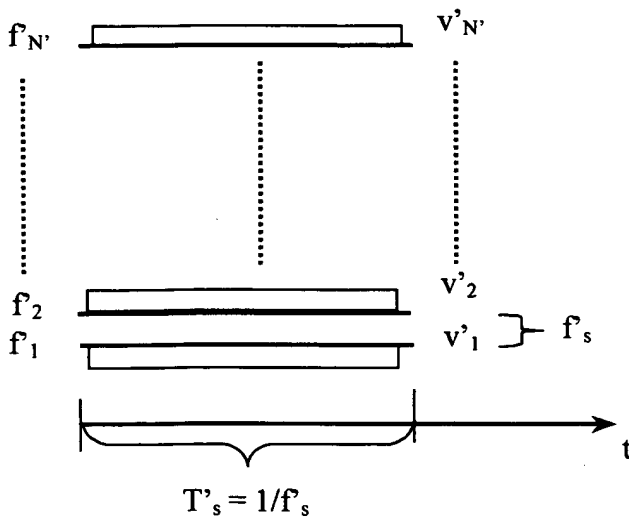
**FIG. 35B**



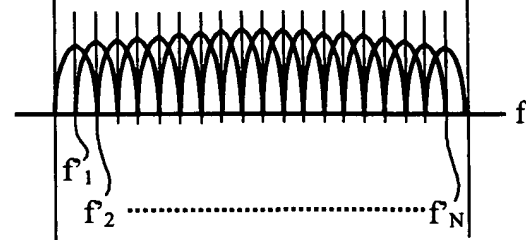
**FIG. 35C**



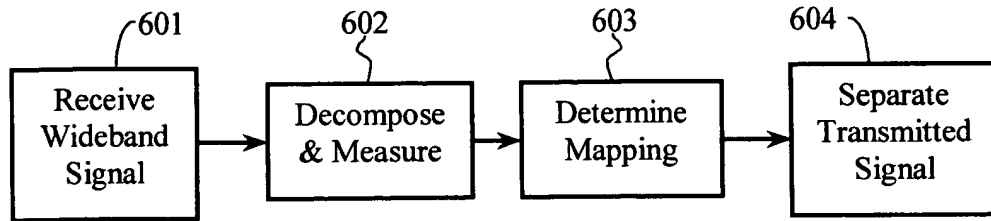
**FIG. 35D**



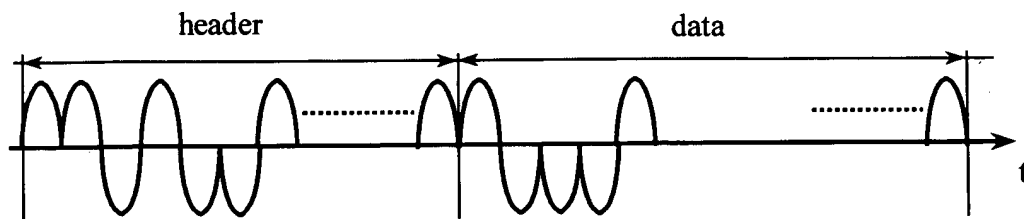
**FIG. 35E**



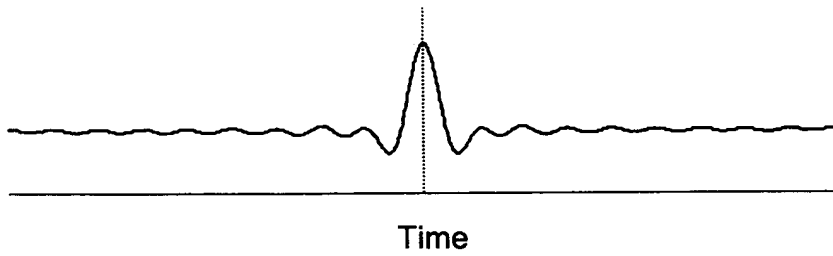
**FIG. 35F**



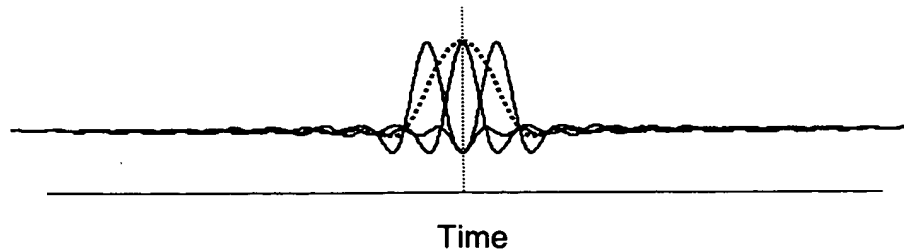
**FIG. 36**



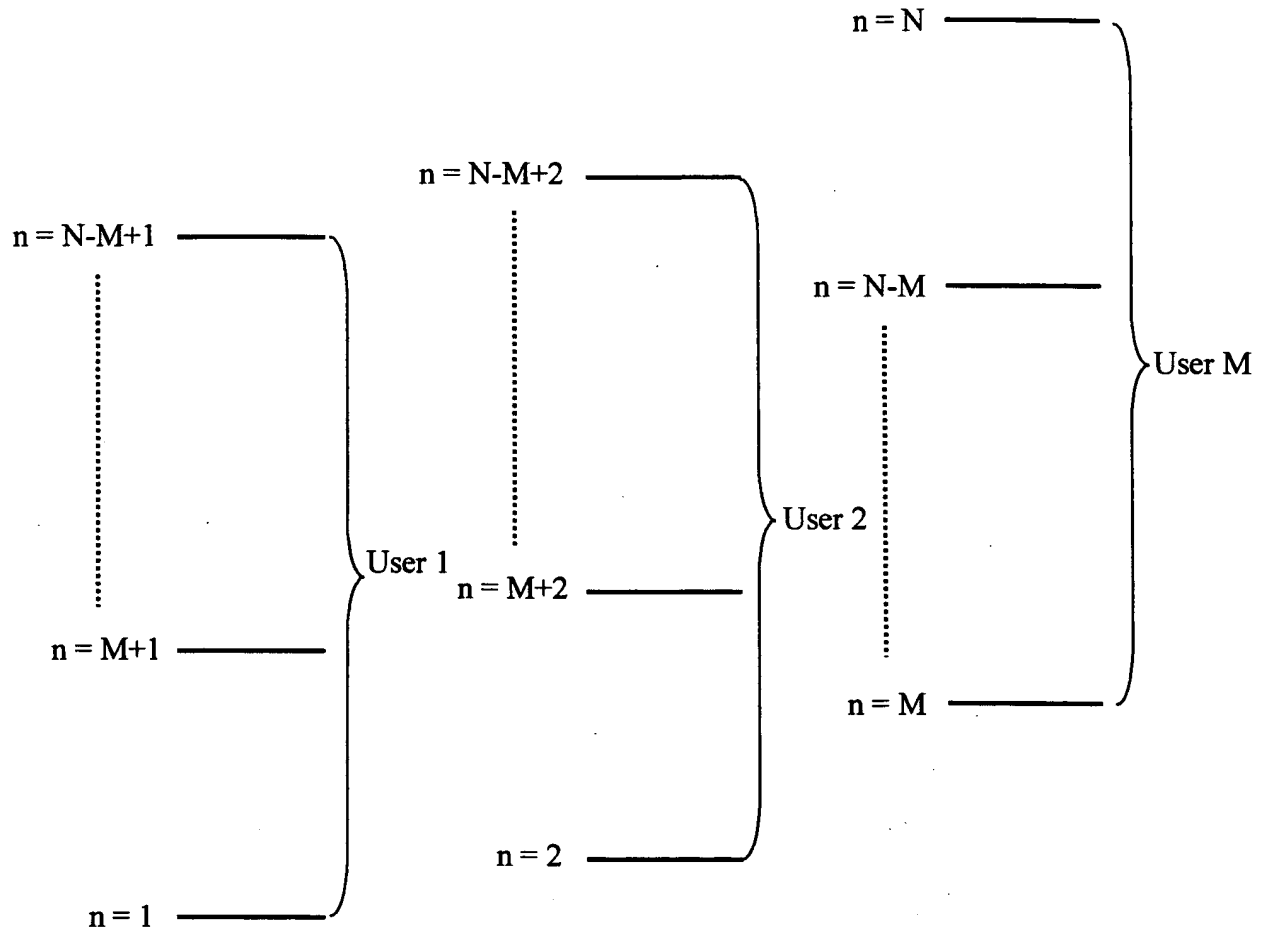
**FIG. 37A**



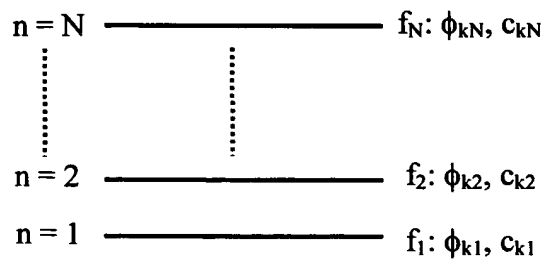
**FIG. 37B**



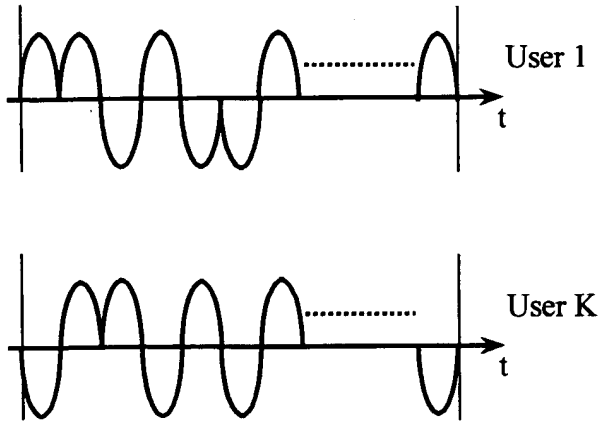
**FIG. 37C**



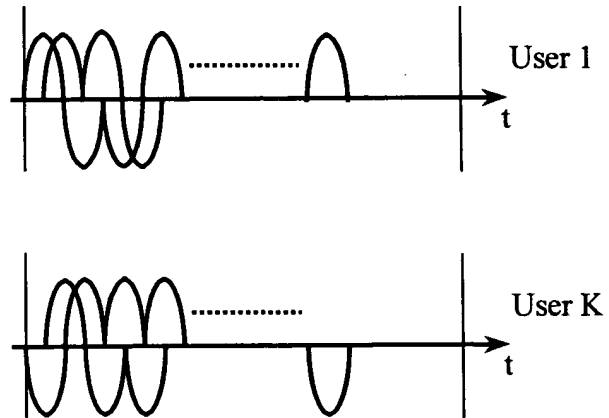
**FIG. 38**



**FIG. 39**



**FIG. 40A**



**FIG. 40B**

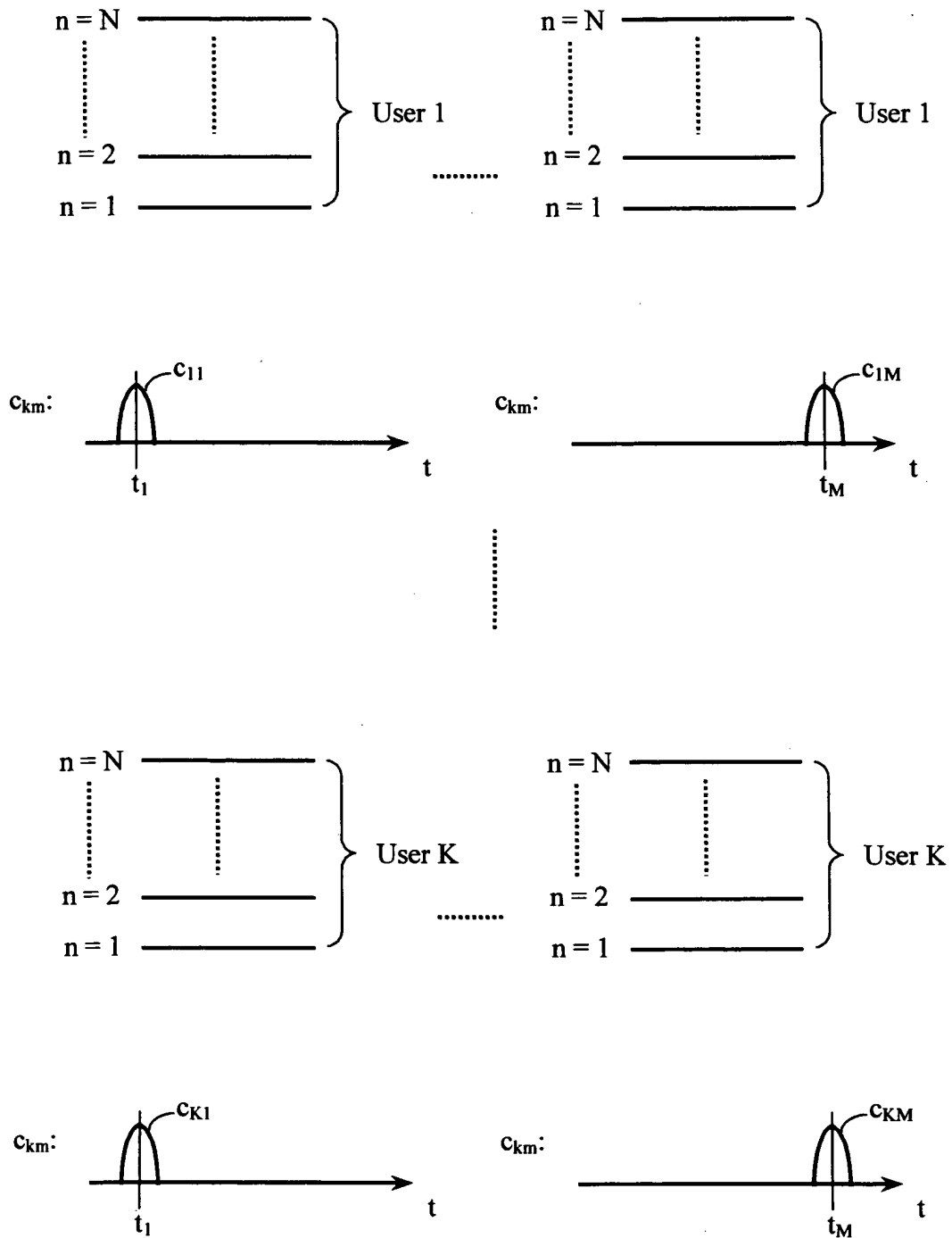


FIG. 40C

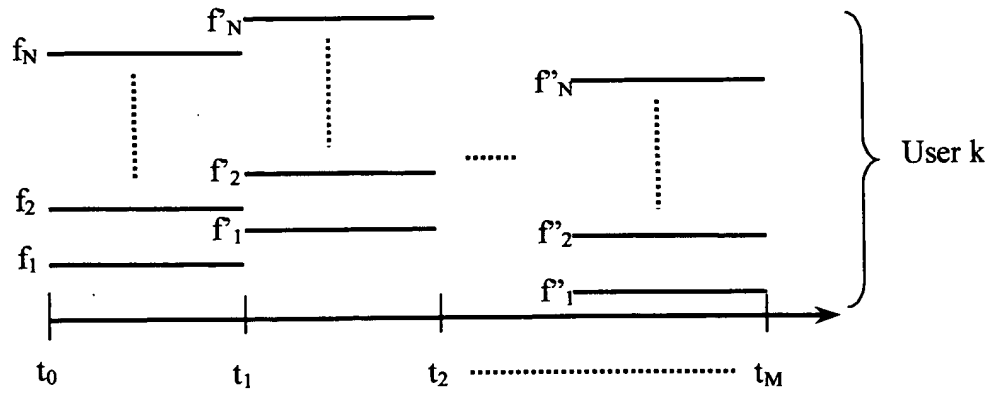


FIG. 41

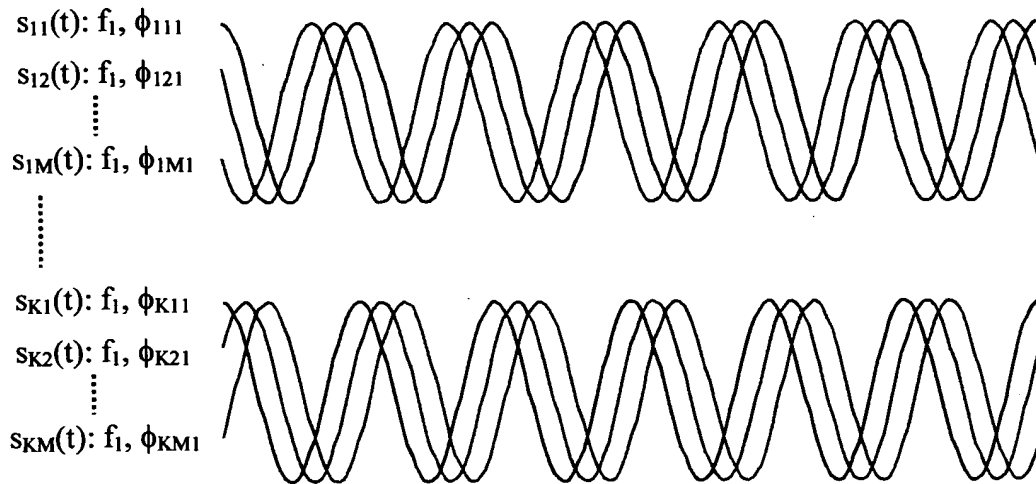
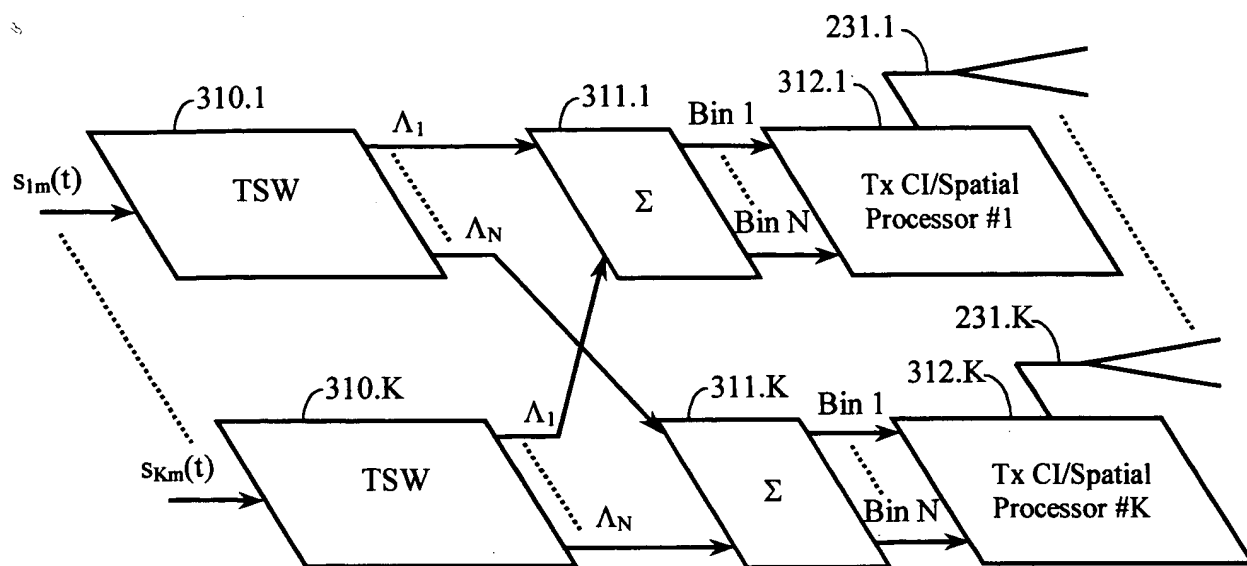
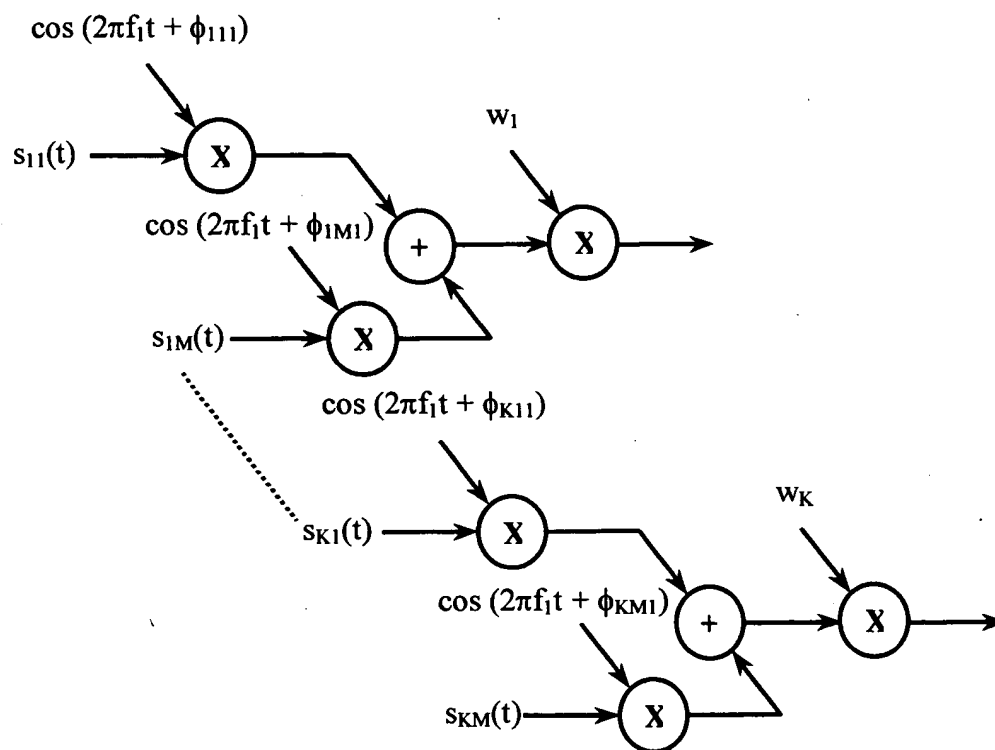


FIG. 42





**FIG. 43A**



**FIG. 43C**

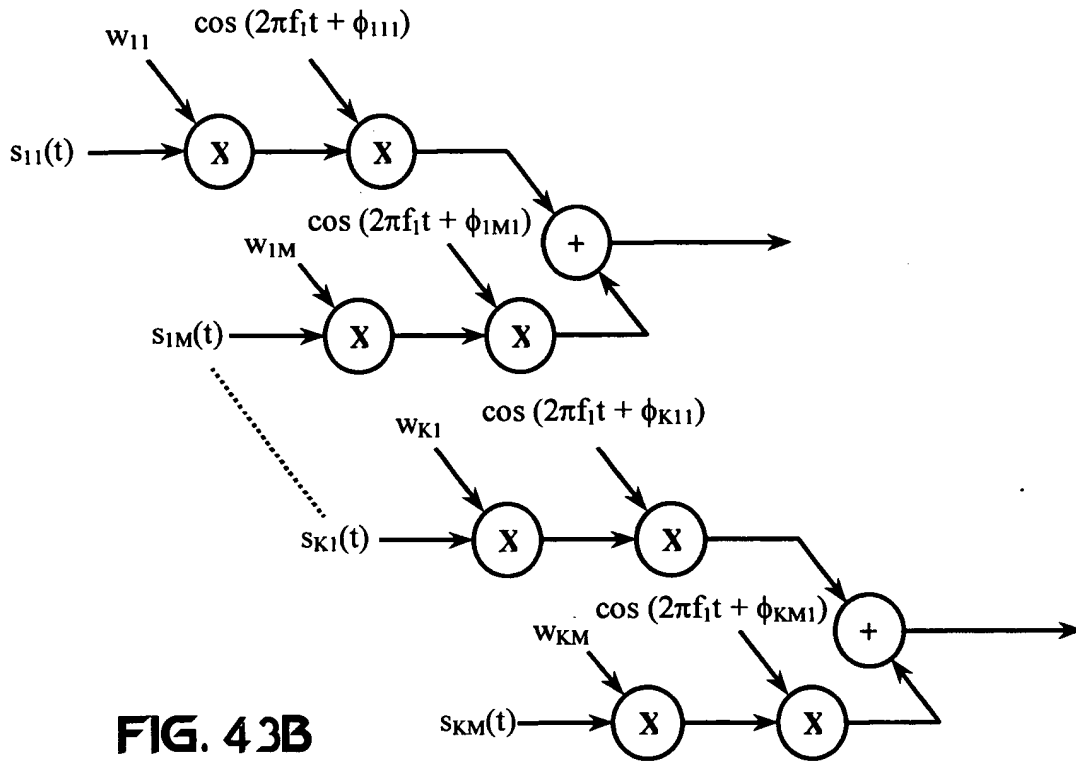


FIG. 43B

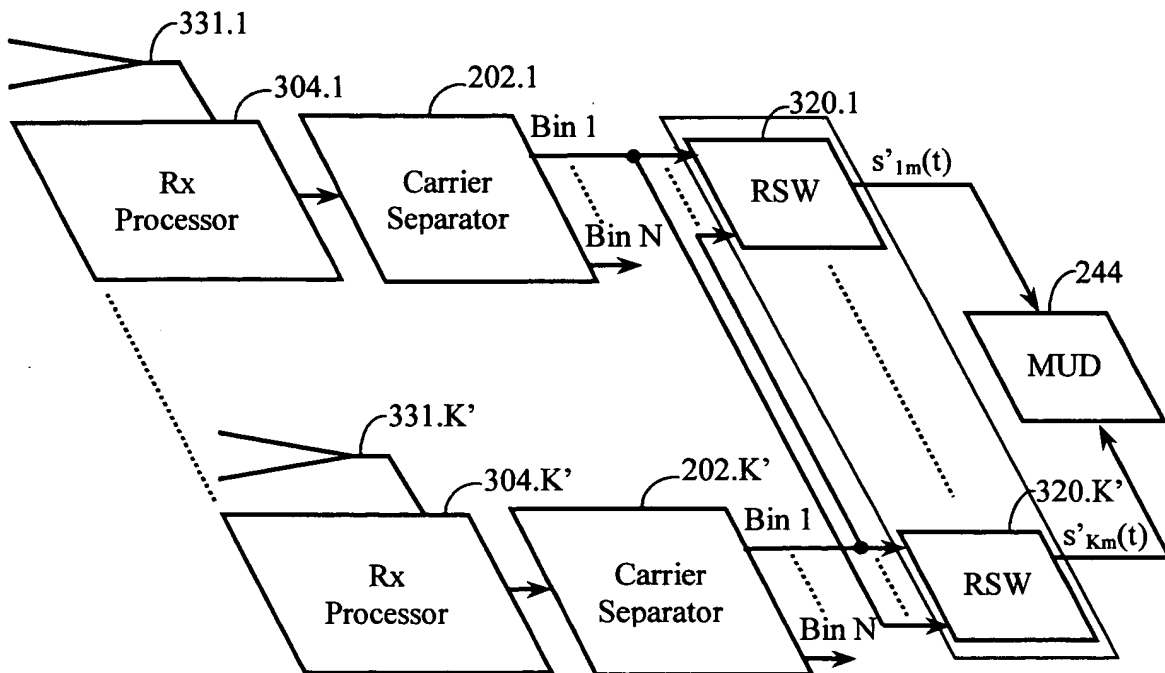
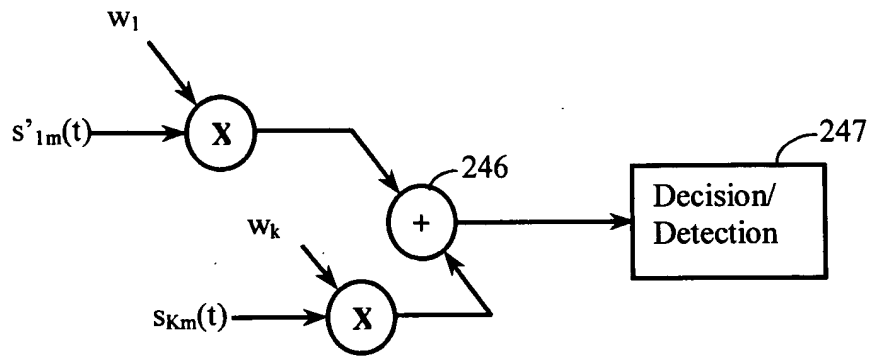
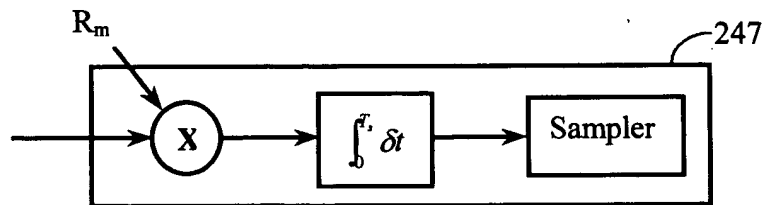


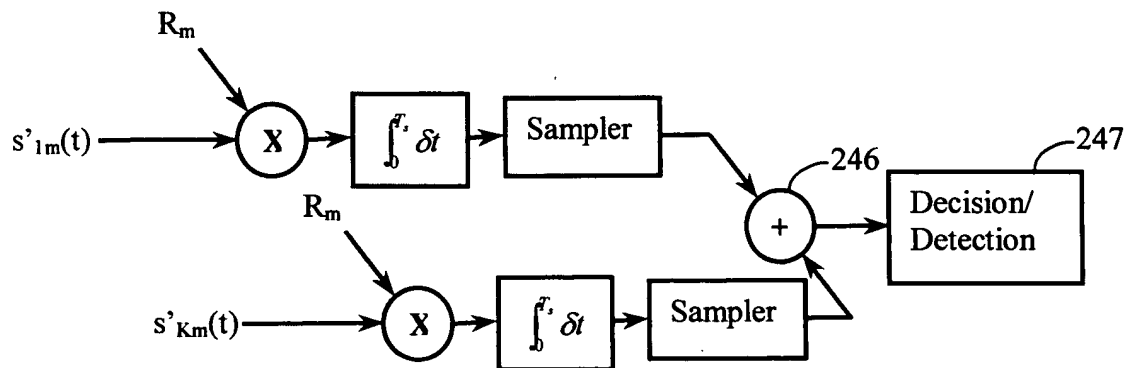
FIG. 44A



**FIG. 44B**



**FIG. 44C**



**FIG. 44D**

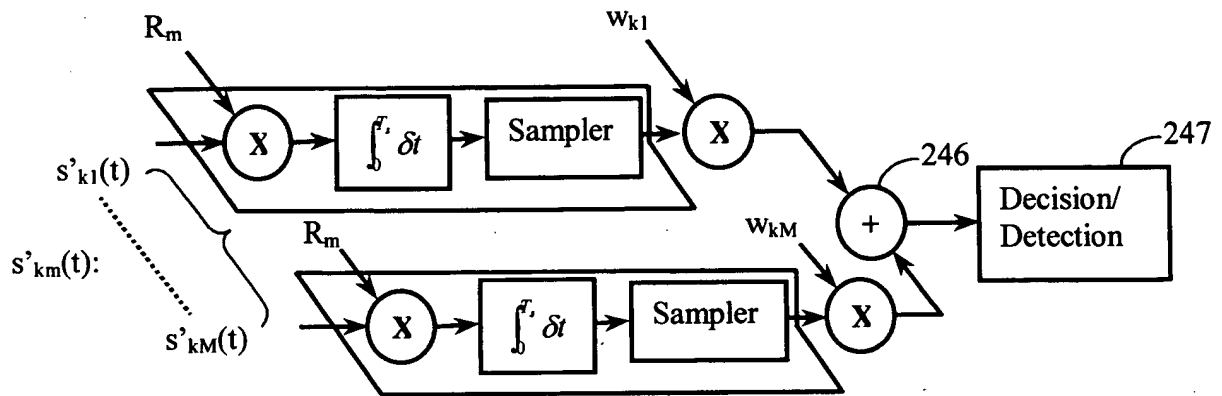


FIG. 44E

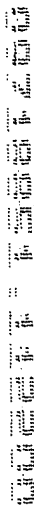


FIG. 45

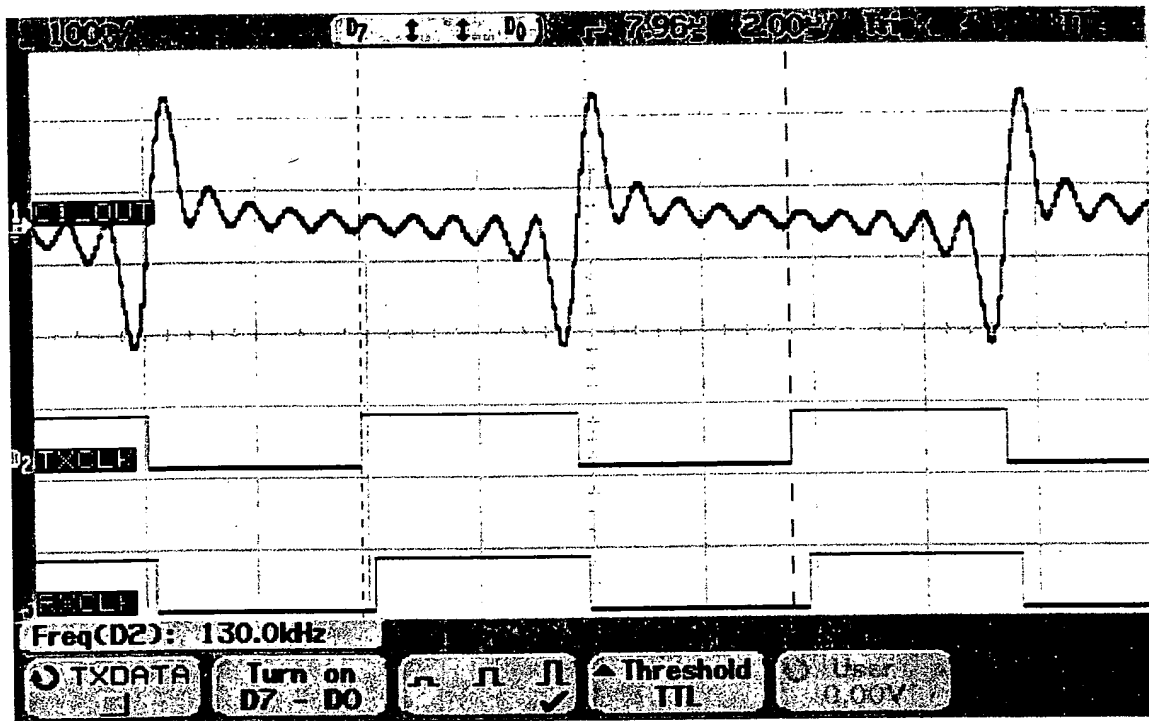


FIG. 46A

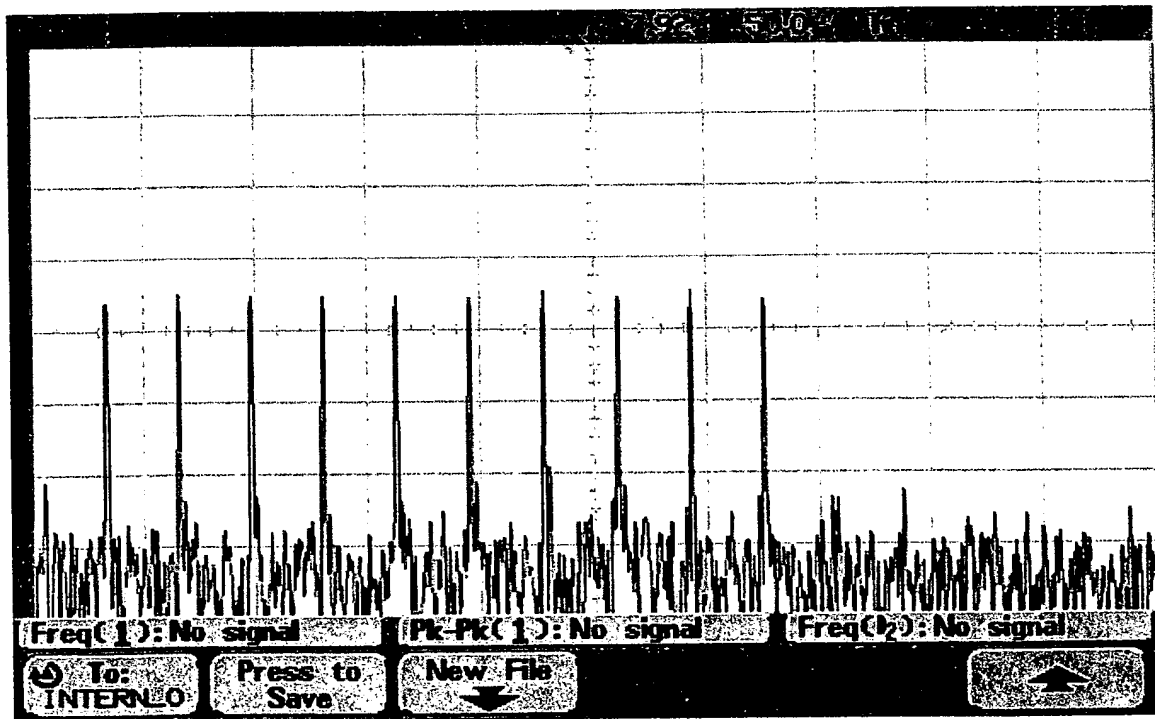


FIG. 46B

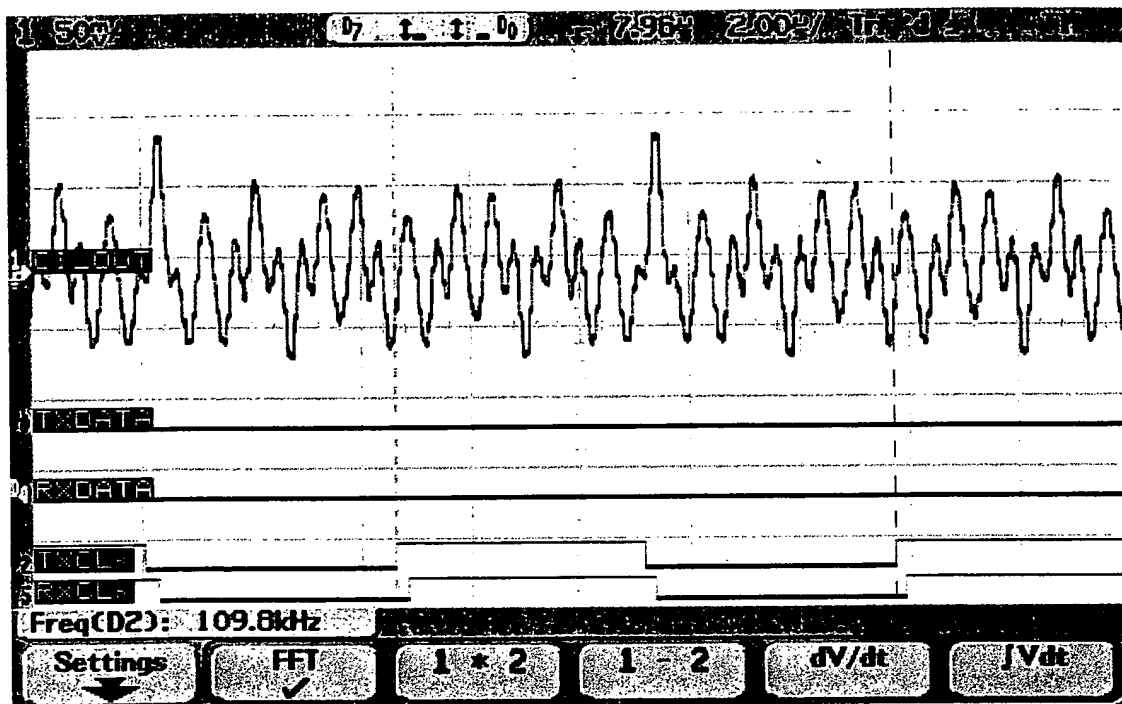


FIG. 47A

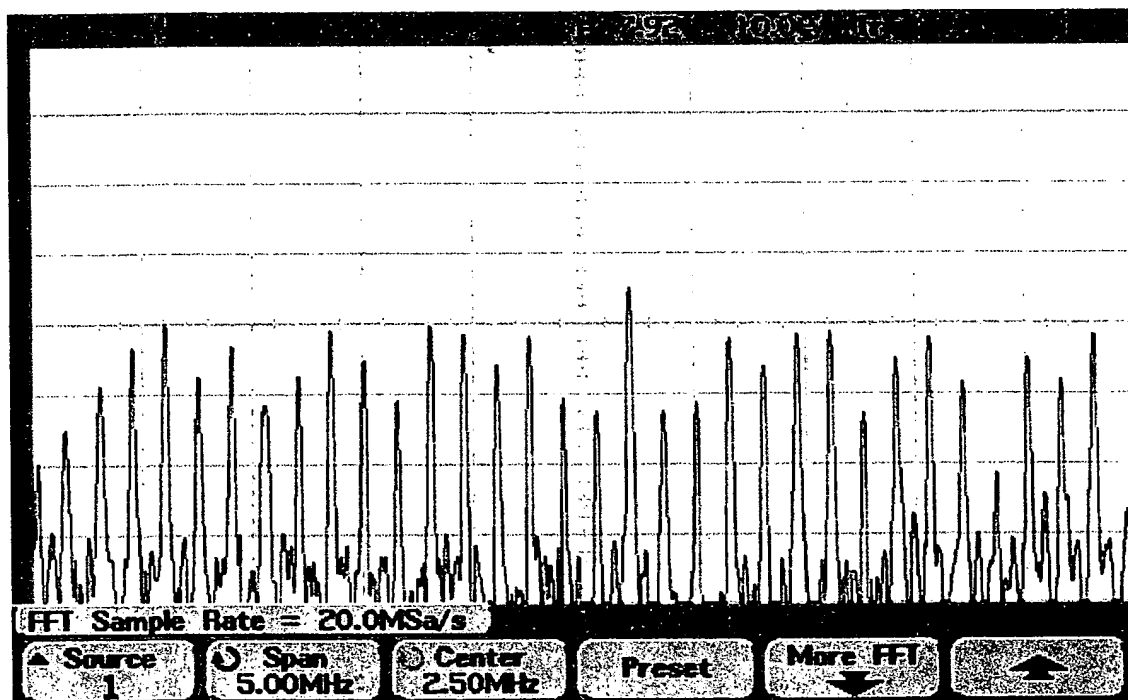


FIG. 47B

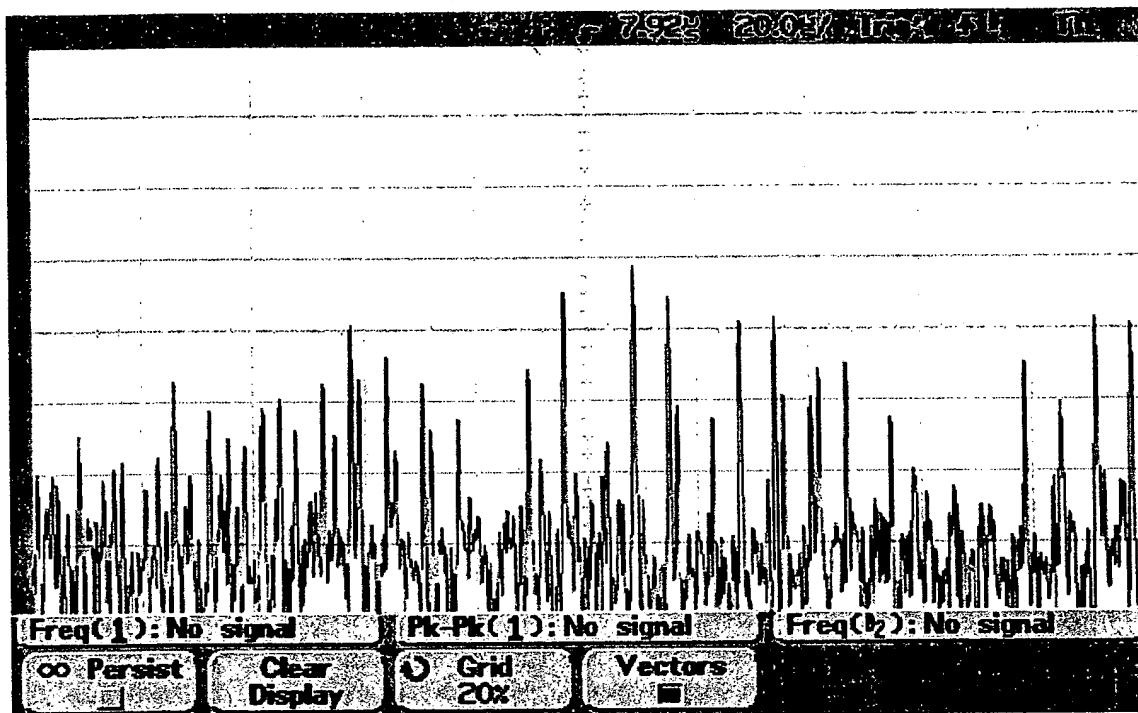


FIG. 48



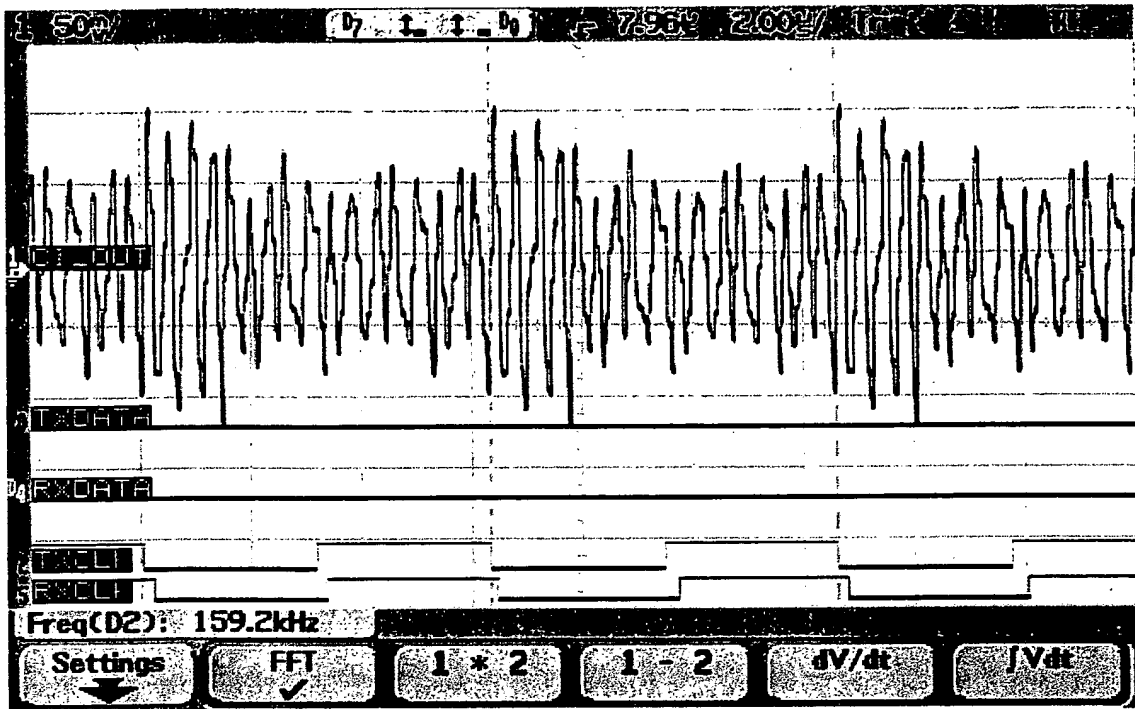


FIG. 49A

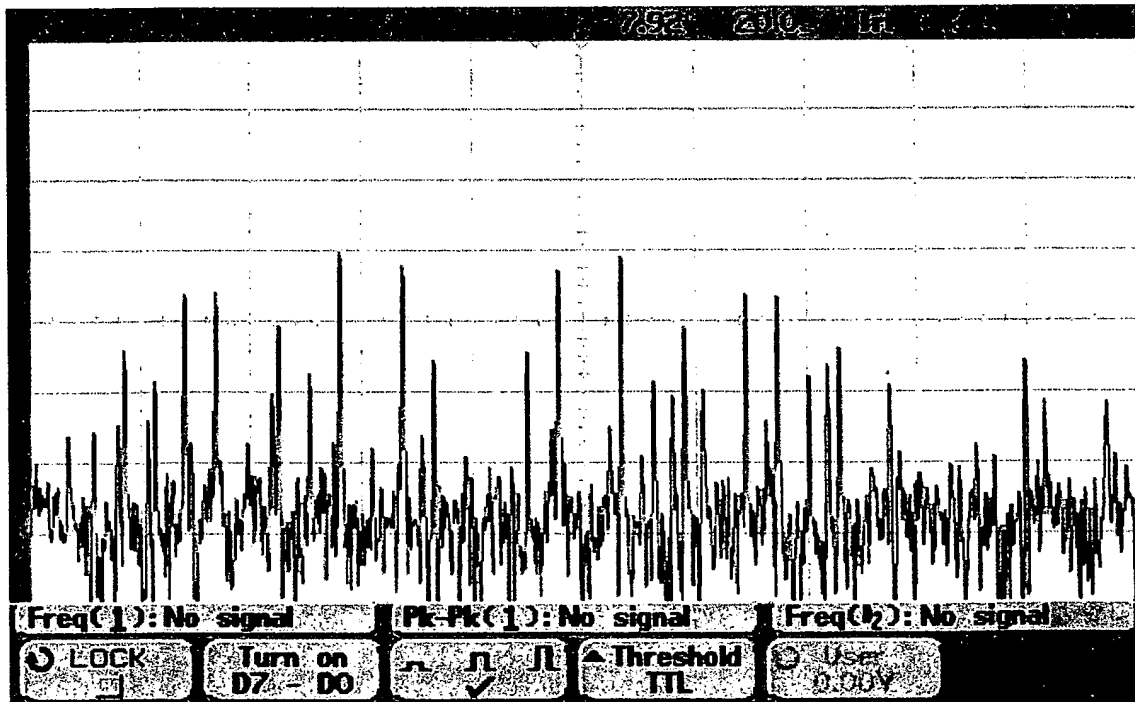


FIG. 49B